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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:54:46 ; Search time 55 Seconds
(without alignments)
30.823 Million cell updates/sec

Title: US-09-847-940C-6
Perfect score: 40
Sequence: 1 ADWSWA 6

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_29Jan04:**
1: geneseqp1980s:**
2: geneseqp1990s:**
3: geneseqp2000s:**
4: geneseqp2001s:**
5: geneseqp2002s:**
6: geneseqp2003as:**
7: geneseqp2003bs:**
8: geneseqp2004s:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	40	100.0	6	5	AAM48538 Anti-infl
2	40	100.0	6	5	AAM48570 Anti-infl
3	40	100.0	6	6	ADA61814 NFkB esse
4	40	100.0	6	6	ADA61846 NFkB esse
5	40	100.0	7	5	AAM48574 Anti-infl
6	40	100.0	7	6	ADA61850 NFkB esse
7	40	100.0	8	5	AAM48575 Anti-infl
8	40	100.0	8	5	AAM48567 Anti-infl
9	40	100.0	8	6	ADA61851 NFkB esse
10	40	100.0	8	6	ADA61843 NFkB esse
11	40	100.0	9	5	AAM48573 Anti-infl
12	40	100.0	9	5	AAM48566 Anti-infl
13	40	100.0	9	5	AAM48569 Anti-infl
14	40	100.0	9	5	AAM48572 Anti-infl
15	40	100.0	9	6	ADA61848 NFkB esse
16	40	100.0	9	6	ADA61841 NFkB esse
17	40	100.0	9	6	ADA61849 NFkB esse
18	40	100.0	9	6	ADA61845 NFkB esse
19	40	100.0	9	6	ADA61842 NFkB esse
20	40	100.0	10	5	AAM48568 Anti-infl
21	40	100.0	10	5	AAM48571 Anti-infl
22	40	100.0	10	6	ADA61844 NFkB esse
23	40	100.0	10	6	ADA61847 NFkB esse
24	40	100.0	11	5	AAM48565 Anti-infl
25	40	100.0	11	6	ADA61840 NFkB esse

regular search;
saved 35 alignments

26	37	92.5	33	4	AAU21305	Aau21305 Human nov
27	37	92.5	103	2	AAU06332	Aay06332 Gliocladi
28	37	92.5	236	2	AAU06363	Aay06363 Gliocladi
29	37	92.5	236	3	AAU84341	Aay84341 Amino aci
30	37	92.5	236	3	AAU14876	Aab14876 Gliocladi
31	37	92.5	236	5	AAU77584	Aau77584 G. roseum
32	37	92.5	236	5	AAU77428	Aau77428 Gliocladi
33	37	92.5	274	5	ABP65718	Abp65718 Bifidobac
34	37	92.5	597	4	ABB62635	Abb62635 Drosophil
35	37	92.5	885	4	AAU33594	Aau33594 Pseudomon
36	37	92.5	885	6	ABU15648	Abu15648 Protein e
37	36	90.0	6	5	ABB08727	Abb08727 Mutated I
38	36	90.0	6	5	ABB08728	Abb08728 Mutated I
39	36	90.0	6	5	AAM48537	Aam48537 Anti-infl
40	36	90.0	6	5	AAM48548	Aam48548 Anti-infl
41	36	90.0	6	5	AAM48559	Aam48559 Anti-infl
42	36	90.0	6	5	AAM48509	Aam48509 NBD mutan
43	36	90.0	6	5	AAM48510	Aam48510 NBD mutan
44	36	90.0	6	5	AAM48536	Aam48536 Anti-infl
45	36	90.0	6	6	ABU08420	Abu08420 Human NEM

ALIGNMENTS

RESULT 1
AAM48538
ID AAM48538 standard; peptide; 6 AA.

XX AAM48538;
AC
XX 20-MAR-2002 (first entry)
DT
XX
DE Anti-inflammatory peptide SEQ ID NO 41.

XX Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

OS Synthetic.

XX WO200183554-A2.

PD 08-NOV-2001.

PF 02-MAY-2001; 2001WO-US014346.

PR 02-MAY-2000; 2000US-0201261P.

PR 22-AUG-2000; 2000US-00643260.

XX (PRAE-) PRAECIS PHARM INC.

PA (UYA) UNIV YALE.

PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX WPI; 2002-121889/16.

XX Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappaB activation, and for treating asthma, lung inflammation, psoriasis.

PS Claim 6; Page 61; 88pp; English.

XX The invention relates to an antiinflammatory compound (especially

CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The

CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antiarheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 6 AA;

Query Match 100.0%; Score 40; DB 5; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 2
AAM48570
ID AAM48570 standard; peptide; 6 AA.
XX
AC AAM48570;

DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 73.

XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

OS Synthetic.

XX WO200183554-A2.

PN 08-NOV-2001.

XX 02-MAY-2001; 2001WO-US014346.

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XX 22-AUG-2000; 2000US-00643260.

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PT activation, and for treating asthma, lung inflammation, psoriasis.

XX Claim 6; Page 62; 88pp; English.

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CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 6 AA;

Query Match 100.0%; Score 40; DB 5; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 3
ADA61814
ID ADA61814 standard; peptide; 6 AA.
XX
AC ADA61814;

DT 20-NOV-2003 (first entry)

XX NFkB essential modulator (NEMO) binding peptide #14.

DE NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
XX antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.

XX Unidentified.

OS US2003054999-A1.

XX 20-MAR-2003.

PD 02-MAY-2001; 2001US-00847946.

XX 02-MAY-2000; 2000US-0201261P.

XX (MAYM/) MAY M J.

PA (GHOS/) GHOSH S.

XX (FIND/) FINDEIS M A.

PA (PHIL/) PHILLIPS K.

XX (HANN/) HANNIG G.

PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;

XX WPI; 2003-596541/56.

XX PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 6 AA;
Query Match 100.0%; Score 40; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ADWSWA 6
Db | | | | |
1 ADWSWA 6
RESULT 4
ADA61846
ID ADA61846 standard; peptide; 6 AA.
XX
AC ADA61846;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #46.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antiirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
XX US2003054999-A1.
XX
XX 20-MAR-2003.
XX
XX 02-MAY-2001; 2001US-00847946.
XX
XX 02-MAY-2000; 2000US-0201261P.
XX
XX (MAYM/) MAY M J.
XX (GHOS/) GHOSH S.
XX (FIND/) FINDEIS M A.
XX (PHIL/) PHILLIPS K.
XX (HANN/) HANNIG G.
XX
XX May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX
XX WPI; 2003-596541/56.
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XX New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.

XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 6 AA;
Query Match 100.0%; Score 40; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ADWSWA 6
Db | | | | |
1 ADWSWA 6
RESULT 5
AAM48574
ID AAM48574 standard; peptide; 7 AA.
XX
AC AAM48574;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 77.
XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antiirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
XX WO200183554-A2.
XX
XX 08-NOV-2001.
XX
XX 02-MAY-2001; 2001WO-US014346.
XX
XX 02-MAY-2000; 2000US-0201261P.
XX 22-AUG-2000; 2000US-00643260.
XX
XX (PRAE-) PRAECIS PHARM INC.
XX (UYYA) UNIV YALE.
XX
XX May MJ, Ghosh S, Findeis MA, Phillips K;
XX
XX WPI; 2002-121889/16.
XX
XX Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
XX Claim 6; Page 62; 88pp; English.
XX
XX The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antiirheumatic, antiarthritic, osteopathic, antibacterial,

CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 7 AA;

Query Match 100.0%; Score 40; DB 5; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 6
ADA61850
ID ADA61850 standard; peptide; 7 AA.
XX
AC ADA61850;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #50.

KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.

XX Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.

XX (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.

XX May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
PI WPI; 2003-596541/56.
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XX New compound for diagnosing or treating inflammatory disorders, e.g.
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PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
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PS Claim 6; Page 23; 37pp; English.
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CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 7 AA;

Query Match 100.0%; Score 40; DB 6; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 7
AAM48575
ID AAM48575 standard; peptide; 8 AA.
XX
AC AAM48575;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 78.

XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

XX Synthetic.
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XX WO200183554-A2.
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XX 08-NOV-2001.
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PF 02-MAY-2001; 2001WO-US014346.
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PR 02-MAY-2000; 2000US-0201261P.
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CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,
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CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis

XX Sequence 8 AA;

SQ Query Match 100.0%; Score 40; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
| | | | |
Db 1 ADWSWA 6

RESULT 8
AAM48567
ID AAM48567 standard; peptide; 8 AA.
XX
AC AAM48567;
XX

DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 70.

XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

XX Synthetic.

OS WO200183554-A2.

XX 08-NOV-2001.

PF 02-MAY-2001; 2001WO-US014346.

XX 02-MAY-2000; 2000US-0201261P.

PR 22-AUG-2000; 2000US-00643260.

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CC antiinflammatory, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
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CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis

XX Sequence 8 AA;

SQ Query Match 100.0%; Score 40; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
| | | | |
Db 3 ADWSWA 8

RESULT 9
ADA61851

ID ADA61851 standard; peptide; 8 AA.

XX ADA61851;

XX 20-NOV-2003 (first entry)

DE NFkB essential modulator (NEMO) binding peptide #51.

XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.

XX Unidentified.

OS US2003054999-A1.

XX 20-MAR-2003.

PF 02-MAY-2001; 2001US-00847946.

XX 02-MAY-2000; 2000US-0201261P.

PA (MAYM/) MAY M J.

PA (GHOS/) GHOSH S.

PA (FIND/) FINDEIS M A.

PA (PHIL/) PHILLIPS K.

PA (HANN/) HANNIG G.

XX May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;

XX WPI; 2003-596541/56.

XX New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or

PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 8 AA;

Query Match 100.0%; Score 40; DB 6; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 10
ADA61843
ID ADA61843 standard; peptide; 8 AA.
XX
AC ADA61843;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #43.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX
DR WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX

CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 8 AA;

Query Match 100.0%; Score 40; DB 6; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 3 ADWSWA 8

RESULT 11
AAM48573
ID AAM48573 standard; peptide; 9 AA.
XX
AC AAM48573;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 76.
XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX
DR WPI; 2002-121889/16.
XX
PT Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.
XX
CC The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMW48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by

CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 2 ADWSWA 7

RESULT 12
AAM48566
ID AAM48566 standard; peptide; 9 AA.
XX
AC AAM48566;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 69.
XX

KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX WPI; 2002-121889/16.
DR
XX Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX

PS Claim 6; Page 62; 88pp; English.
XX The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,

CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 13
AAM48569
ID AAM48569 standard; peptide; 9 AA.
XX
AC AAM48569;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 72.
XX

KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX WPI; 2002-121889/16.
DR
XX Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.
XX The invention relates to an antiinflammatory compound (especially

CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytotstatic, antipsoriatic,
CC antiinflammatory compounds have antiasthmatic, cytotstatic, antipsoriatic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 14
AAM48572
ID AAM48572 standard; peptide; 9 AA.
XX
AC AAM48572;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 75.
XX
KW Antiinflammatory; antiasthmatic; cytotstatic; antipsoriatic; nootropic;
KW antiinflammatory; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYVA) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX WPI; 2002-121889/16.
DR
XX
PT Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.

XX Claim 6; Page 62; 88pp; English.
PS
XX
CC The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytotstatic, antipsoriatic,
CC antiinflammatory compounds have antiasthmatic, cytotstatic, antipsoriatic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 3 ADWSWA 8

RESULT 15
ADA61848
ID ADA61848 standard; peptide; 9 AA.
XX
AC ADA61848;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #48.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antiinflammatory;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytotstatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX

PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 9 AA;
Query Match 100.0%; Score 40; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ADWSWA 6
Db |||||
3 ADWSWA 8
RESULT 16
ADA61841
ID ADA61841 standard; peptide; 9 AA.
XX
AC ADA61841;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #41.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.

PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 9 AA;
Query Match 100.0%; Score 40; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ADWSWA 6
Db |||||
1 ADWSWA 6
RESULT 17
ADA61849
ID ADA61849 standard; peptide; 9 AA.
XX
AC ADA61849;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #49.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
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PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus); multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 2 ADWSWA 7
| | | | |

RESULT 18
ADA61845
ID ADA61845 standard; peptide; 9 AA.
XX
AC ADA61845;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #45.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX WPI; 2003-596541/56.
DR
XX New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.

CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6
| | | | |

RESULT 19
ADA61842
ID ADA61842 standard; peptide; 9 AA.
XX
AC ADA61842;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #42.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX WPI; 2003-596541/56.
DR
XX New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX

```
SQ Sequence 9 AA;
Query Match      100.0%; Score 40; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
   |||||
Db 1 ADWSWA 6

RESULT 20
AAM48568
ID AAM48568 standard; peptide; 10 AA.
XX
AC AAM48568;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 71.
XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA ) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX WPI; 2002-121889/16.
XX
PT Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.
XX
CC The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
```

```
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 10 AA;
Query Match      100.0%; Score 40; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
   |||||
Db 2 ADWSWA 7

RESULT 21
AAM48571
ID AAM48571 standard; peptide; 10 AA.
XX
AC AAM48571;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 74.
XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA ) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX WPI; 2002-121889/16.
XX
PT Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.
XX
CC The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
```

CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 10 AA;

Query Match 100.0%; Score 40; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 3 ADWSWA 8
|||||

RESULT 22
ADA61844
ID ADA61844 standard; peptide; 10 AA.
XX
AC ADA61844;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #44.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX
DR WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence

CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 10 AA;

Query Match 100.0%; Score 40; DB 6; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 2 ADWSWA 7
|||||

RESULT 23
ADA61847
ID ADA61847 standard; peptide; 10 AA.
XX
AC ADA61847;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #47.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX
DR WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 10 AA;

Query Match		100.0%;	Score 40;	DB 6;	Length 10;
Best Local Similarity		100.0%;	Pred. No. 2.6;		
Matches	6;	Conservative	0;	Mismatches	0; Indels 0; Gaps 0;
QY	1	ADWSWA 6			
Db	3	ADWSWA 8			
RESULT 24					
ID	AAM48565	standard; peptide; 11 AA.			
XX					
AC	AAM48565;				
XX					
DT	20-MAR-2002	(first entry)			
XX					
DE	Anti-inflammatory peptide SEQ ID NO 68.				
XX					
KW	Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; neutropic;				
KW	antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;				
KW	immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;				
KW	antiallergic; membrane translocation domain; NEMO binding domain; eczema;				
KW	cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;				
KW	rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;				
KW	autoimmune disorder; multiple sclerosis; transplant rejection;				
KW	osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;				
KW	ataxia telangiectasia; allergy; anaphylaxis; arthritis.				
XX					
OS	Synthetic.				
XX					
PN	WO200183554-A2.				
XX					
PD	08-NOV-2001.				
XX					
PF	02-MAY-2001; 2001WO-US014346.				
XX					
PR	02-MAY-2000; 2000US-0201261P.				
PR	22-AUG-2000; 2000US-00643260.				
XX					
PA	(PRAE-) PRAECIS PHARM INC.				
PA	(UYYA) UNIV YALE.				
XX					
PI	May MJ, Ghosh S, Findeis MA, Phillips K;				
XX					
DR	WPI; 2002-121889/16.				
XX					
PT	Novel antiinflammatory compound comprising membrane translocation domain				
PT	fused to NEMO binding sequence, useful for blocking nuclear factor kappaB				
PT	activation, and for treating asthma, lung inflammation, psoriasis.				
XX					
PS	Claim 6; Page 62; 88pp; English.				
XX					
CC	The invention relates to an antiinflammatory compound (especially				
CC	AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-				
CC	AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid				
CC	residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The				
CC	antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,				
CC	antirheumatic, antiarthritic, osteopathic, antibacterial,				
CC	immunosuppressive, dermatological, neuroprotective, neutropic,				
CC	antiatherosclerotic, virucide and antiallergic activity. The compounds				
CC	act as selective inhibitors of cytokine-mediated NFkappaB activation by				
CC	blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding				
CC	domain that results in inhibition of IKKbeta kinase activation and				
CC	subsequent decreased phosphorylation of IkappaB. The compounds are useful				
CC	for treating inflammatory disorders, e.g. asthma, lung inflammation or				
CC	cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory				
CC	bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as				
CC	lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;				
CC	transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;				
CC	viral infections; and ataxia telangiectasia. The compounds are also				
CC	useful for treating pro-inflammatory responses such as allergies,				
CC	urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,				
CC	sunburn, aging and arthritis				
XX					
SQ	Sequence 11 AA;				
Query Match					
Best Local Similarity		100.0%;	Score 40;	DB 5;	Length 11;
Matches		6;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
QY	1	ADWSWA 6			
Db	3	ADWSWA 8			
RESULT 25					
ID	ADA61840	standard; peptide; 11 AA.			
XX					
AC	ADA61840;				
XX					
DT	20-NOV-2003	(first entry)			
XX					
DE	NFkB essential modulator (NEMO) binding peptide #40.				
XX					
KW	NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;				
KW	antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;				
KW	antiarthritic; osteopathic; antibacterial; immunosuppressive;				
KW	dermatological; neuroprotective; cytostatic; neutropic; virucide;				
KW	gene therapy; anti-inflammatory; inflammatory disorder; asthma;				
KW	psoriasis; rheumatoid arthritis; osteoarthritis;				
KW	inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;				
KW	systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;				
KW	Alzheimer's disease; viral infection; NF-kappa B essential modulator;				
KW	necrosis factor kappa B essential modulator.				
XX					
OS	Unidentified.				
XX					
PN	US2003054999-A1.				
XX					
PD	20-MAR-2003.				
XX					
PF	02-MAY-2001; 2001US-00847946.				
XX					
PR	02-MAY-2000; 2000US-0201261P.				
XX					
PA	(MAYM/) MAY M J.				
PA	(GHOS/) GHOSH S.				
PA	(FIND/) FINDEIS M A.				
PA	(PHIL/) PHILLIPS K.				
PA	(HANN/) HANNIG G.				
XX					
PI	May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;				
XX					
DR	WPI; 2003-596541/56.				
XX					
PT	New compound for diagnosing or treating inflammatory disorders, e.g.				
PT	asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or				
PT	cancer, comprises a membrane translocation domain and a NEMO binding				
PT	sequence.				
XX					
PS	Claim 6; Page 23; 37pp; English.				
XX					
CC	The invention describes an anti-inflammatory compound comprising (I). The				
CC	compound is useful for diagnosing or treating inflammatory disorders,				
CC	such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,				
CC	inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.				
CC	systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,				
CC	Alzheimer's disease or viral infection. This is the amino acid sequence				
CC	of an anti-inflammatory peptide that binds to, and down-regulates,				
CC	necrosis factor kappa B (NFkB) essential modulator (NEMO).				
XX					
SQ	Sequence 11 AA;				
Query Match					
Best Local Similarity		100.0%;	Score 40;	DB 6;	Length 11;

Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 |||||
Db 3 ADWSWA 8

Search completed: April 27, 2004, 08:55:57
Job time : 56 secs

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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:55:32 ; Search time 55 Seconds
(without alignments)
30.823 Million cell updates/sec

Title: US-09-847-940C-6

Perfect score: 6

Sequence: 1 ADWSWA 6

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1586107 seqs, 282547505 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : A_Geneseq_29Jan04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6	100.0	6	5	AAM48538 Anti-infl
2	6	100.0	6	5	AAM48570 Anti-infl
3	6	100.0	6	6	ADA61814 NFkB esse
4	6	100.0	6	6	ADA61846 NFkB esse
5	6	100.0	7	5	AAM48574 Anti-infl
6	6	100.0	7	6	ADA61850 NFkB esse
7	6	100.0	8	5	AAM48575 Anti-infl
8	6	100.0	8	5	AAM48567 Anti-infl
9	6	100.0	8	6	ADA61851 NFkB esse
10	6	100.0	8	6	ADA61843 NFkB esse
11	6	100.0	9	5	AAM48573 Anti-infl
12	6	100.0	9	5	AAM48566 Anti-infl
13	6	100.0	9	5	AAM48569 Anti-infl
14	6	100.0	9	5	AAM48572 Anti-infl
15	6	100.0	9	6	ADA61848 NFkB esse
16	6	100.0	9	6	ADA61841 NFkB esse
17	6	100.0	9	6	ADA61849 NFkB esse
18	6	100.0	9	6	ADA61845 NFkB esse
19	6	100.0	9	6	ADA61842 NFkB esse
20	6	100.0	10	5	AAM48568 Anti-infl
21	6	100.0	10	5	AAM48571 Anti-infl
22	6	100.0	10	6	ADA61844 NFkB esse
23	6	100.0	10	6	ADA61847 NFkB esse
24	6	100.0	11	5	AAM48565 Anti-infl
25	6	100.0	11	6	ADA61840 NFkB esse

26	5	83.3	6	5	ABB08727	Abb08727 Mutated I
27	5	83.3	6	5	ABB08728	Abb08728 Mutated I
28	5	83.3	6	5	AAM48537	Aam48537 Anti-infl
29	5	83.3	6	5	AAM48548	Aam48548 Anti-infl
30	5	83.3	6	5	AAM48559	Aam48559 Anti-infl
31	5	83.3	6	5	AAM48509	Aam48509 NBD mutan
32	5	83.3	6	5	AAM48510	Aam48510 NBD mutan
33	5	83.3	6	5	AAM48536	Aam48536 Anti-infl
34	5	83.3	6	6	ABU08420	Abu08420 Human NEM
35	5	83.3	6	6	ABU08421	Abu08421 Human NEM
36	5	83.3	6	6	ADA61778	Ada61778 IKKbeta N
37	5	83.3	6	6	ADA61812	Ada61812 NFkB esse
38	5	83.3	6	6	ADA61811	Ada61811 NFkB esse
39	5	83.3	6	6	ADA61813	Ada61813 NFkB esse
40	5	83.3	6	6	ADA61835	Ada61835 NFkB esse
41	5	83.3	6	6	ADA61779	Ada61779 IKKbeta N
42	5	83.3	6	6	ADA61824	Ada61824 NFkB esse
43	5	83.3	7	5	AAM48552	Aam48552 Anti-infl
44	5	83.3	7	5	AAM48563	Aam48563 Anti-infl
45	5	83.3	7	6	ADA61828	Ada61828 NFkB esse

ALIGNMENTS

RESULT 1
AAM48538

ID AAM48538 standard; peptide; 6 AA.

XX AAM48538;

AC AAM48538;

DT 20-MAR-2002 (first entry)

XX Anti-inflammatory peptide SEQ ID NO 41.

XX Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW anti allergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

OS Synthetic.

XX WO200183554-A2.

PN 08-NOV-2001.

XX 02-MAY-2001; 2001WO-US014346.

PR 02-MAY-2000; 2000US-0201261P.

PR 22-AUG-2000; 2000US-00643260.

XX (PRAE-) PRAECIS PHARM INC.

PA (UYYA) UNIV YALE.

XX May MJ, Ghosh S, Findeis MA, Phillips K;

PI WPI; 2002-121889/16.

XX Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappaB activation, and for treating asthma, lung inflammation, psoriasis.

PS Claim 6; Page 61; 88pp; English.

XX The invention relates to an antiinflammatory compound (especially

CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-

CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid

CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The

CC	antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,	CC	The invention relates to an antiinflammatory compound (especially
CC	antirheumatic, antiarthritic, osteopathic, antibacterial,	CC	AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC	immunosuppressive, dermatological, neuroprotective, nootropic,	CC	AMW48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC	antiatherosclerotic, virucide and antiallergic activity. The compounds	CC	residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC	act as selective inhibitors of cytokine-mediated NFkappaB activation by	CC	antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC	blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding	CC	antirheumatic, antiarthritic, osteopathic, antibacterial,
CC	domain that results in inhibition of IKKbeta kinase activation and	CC	immunosuppressive, dermatological, neuroprotective, nootropic,
CC	subsequent decreased phosphorylation of IkappaB. The compounds are useful	CC	antiatherosclerotic, virucide and antiallergic activity. The compounds
CC	for treating inflammatory disorders, e.g. asthma, lung inflammation or	CC	act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC	cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory	CC	blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC	bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as	CC	domain that results in inhibition of IKKbeta kinase activation and
CC	lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;	CC	subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC	transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;	CC	for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC	viral infections; and ataxia telangiectasia. The compounds are also	CC	cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC	useful for treating pro-inflammatory responses such as allergies,	CC	bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC	urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,	CC	lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC	sunburn, aging and arthritis	CC	transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
XX		CC	viral infections; and ataxia telangiectasia. The compounds are also
SQ	Sequence 6 AA;	CC	useful for treating pro-inflammatory responses such as allergies,
		CC	urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
		CC	sunburn, aging and arthritis
		XX	
QY	Query Match 100.0%; Score 6; DB 5; Length 6;	SQ	Sequence 6 AA;
	Best Local Similarity 100.0%; Pred. No. 1.4e+06;		
	Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY	1 ADWSWA 6	QY	1 ADWSWA 6
Db	1 ADWSWA 6	Db	1 ADWSWA 6
RESULT 2		RESULT 3	
AAM48570		ADA61814	
ID	AAM48570 standard; peptide; 6 AA.	ID	ADA61814 standard; peptide; 6 AA.
XX		XX	
AC	AAM48570;	AC	ADA61814;
XX		XX	
DT	20-MAR-2002 (first entry)	DT	20-NOV-2003 (first entry)
XX		XX	
DE	Anti-inflammatory peptide SEQ ID NO 73.	DE	NFkB essential modulator (NEMO) binding peptide #14.
XX		XX	
KW	Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;	KW	NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW	antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;	KW	antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW	immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;	KW	antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW	antiallergic; membrane translocation domain; NEMO binding domain; eczema;	KW	dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW	cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;	KW	gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW	rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;	KW	psoriasis; rheumatoid arthritis; osteoarthritis;
KW	autoimmune disorder; multiple sclerosis; transplant rejection;	KW	inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW	osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;	KW	systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW	ataxia telangiectasia; allergy; anaphylaxis; arthritis.	KW	Alzheimer's disease; viral infection; NF-kappa B essential modulator;
XX		KW	necrosis factor kappa B essential modulator.
OS	Synthetic.	XX	
XX		OS	Unidentified.
PN	WO200183554-A2.	XX	
XX		PN	US2003054999-A1.
PD	08-NOV-2001.	XX	
XX		PD	20-MAR-2003.
PF	02-MAY-2001; 2001WO-US014346.	XX	
XX		XX	
PR	02-MAY-2000; 2000US-0201261P.	PF	02-MAY-2001; 2001US-00847946.
PR	22-AUG-2000; 2000US-00643260.	XX	
XX		PR	02-MAY-2000; 2000US-0201261P.
XX		XX	
PA	(PRAE-) PRAECIS PHARM INC.	PA	(MAYM/) MAY M J.
PA	(UYVA) UNIV YALE.	PA	(GHOS/) GHOSH S.
XX		PA	(FIND/) FINDEIS M A.
PI	May MJ, Ghosh S, Findeis MA, Phillips K;	PA	(PHIL/) PHILLIPS K.
XX		PA	(HANN/) HANNIG G.
DR	WPI; 2002-121889/16.	XX	
XX		PI	May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
PT	Novel antiinflammatory compound comprising membrane translocation domain	XX	
PT	fused to NEMO binding sequence, useful for blocking nuclear factor kappaB	XX	
PT	activation, and for treating asthma, lung inflammation, psoriasis.	XX	
XX		XX	
PS	Claim 6; Page 62; 88pp; English.	XX	
XX		DR	WPI; 2003-596541/56.

XX New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 6 AA;
Query Match 100.0%; Score 6; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ADWSWA 6
Db 1 ADWSWA 6
RESULT 4
ADA61846
ID ADA61846 standard; peptide; 6 AA.
XX
AC ADA61846;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #46.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX
DR WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.

XX Claim 6; Page 23; 37pp; English.
PS
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 6 AA;
Query Match 100.0%; Score 6; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ADWSWA 6
Db 1 ADWSWA 6
RESULT 5
AAM48574
ID AAM48574 standard; peptide; 7 AA.
XX
AC AAM48574;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 77.
XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX
DR WPI; 2002-121889/16.
XX
PT Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.
XX
CC The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMW48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,

CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis

XX Sequence 7 AA;

Query Match 100.0%; Score 6; DB 5; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 6

ADA61850
ID ADA61850 standard; peptide; 7 AA.

XX ADA61850;

XX 20-NOV-2003 (first entry)

XX NFkB essential modulator (NEMO) binding peptide #50.

KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.

XX Unidentified.

XX US2003054999-A1.

XX 20-MAR-2003.

XX 02-MAY-2001; 2001US-00847946.

XX 02-MAY-2000; 2000US-0201261P.

XX (MAYM/) MAY M J.

XX (GHOS/) GHOSH S.

XX (FIND/) FINDEIS M A.

XX (PHIL/) PHILLIPS K.

XX (HANN/) HANNIG G.

PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;

XX WPI; 2003-596541/56.

XX New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.

XX

PS Claim 6; Page 23; 37pp; English.
XX The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).

XX Sequence 7 AA;

Query Match 100.0%; Score 6; DB 6; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA.6

RESULT 7

AAM48575
ID AAM48575 standard; peptide; 8 AA.

XX AAM48575;

XX 20-MAR-2002 (first entry)

XX Anti-inflammatory peptide SEQ ID NO 78.

KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

XX Synthetic.

XX WO200183554-A2.

XX 08-NOV-2001.

XX 02-MAY-2001; 2001WO-US014346.

XX 02-MAY-2000; 2000US-0201261P.

XX 22-AUG-2000; 2000US-00643260.

XX (PRAE-) PRAECIS PHARM INC.

XX (UYYA) UNIV YALE.

XX May MJ, Ghosh S, Findeis MA, Phillips K;

XX WPI; 2002-121889/16.

XX Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.

XX Claim 6; Page 62; 88pp; English.

XX The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,

CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 8 AA;

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 8
AAM48567
ID AAM48567 standard; peptide; 8 AA.
XX
AC AAM48567;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 70.
XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYVA) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX
DR WPI; 2002-121889/16.
XX
PT Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.
XX
CC The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid

CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 8 AA;

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 3 ADWSWA 8

RESULT 9
ADA61851
ID ADA61851 standard; peptide; 8 AA.
XX
AC ADA61851;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #51.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PF 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX
DR WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or

PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 8 AA;

Query Match 100.0%; Score 6; DB 6; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 1 ADWSWA 6
| | | | |

RESULT 10
ADA61843
ID ADA61843 standard; peptide; 8 AA.
XX
AC ADA61843;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFkB essential modulator (NEMO) binding peptide #43.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX
OS Unidentified.
XX
PN US2003054999-A1.
XX
PD 20-MAR-2003.
XX
PP 02-MAY-2001; 2001US-00847946.
XX
PR 02-MAY-2000; 2000US-0201261P.
XX
PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX
DR WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX

CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 8 AA;

Query Match 100.0%; Score 6; DB 6; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 3 ADWSWA 8
| | | | |

RESULT 11
AAM48573
ID AAM48573 standard; peptide; 9 AA.
XX
AC AAM48573;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 76.
XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
XX
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX
DR WPI; 2002-121889/16.
XX
PT Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.
XX
CC The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by

CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 6; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 2 ADWSWA 7
RESULT 12
AAM48566
ID AAM48566 standard; peptide; 9 AA.
XX
AC AAM48566;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 69.
XX

KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX WPI; 2002-121889/16.
DR
XX Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.

XX The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,

CC antirheumatic, antiarthritic, osteopathic, antibacterial,
CC immunosuppressive, dermatological, neuroprotective, nootropic,
CC antiatherosclerotic, virucide and antiallergic activity. The compounds
CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
CC domain that results in inhibition of IKKbeta kinase activation and
CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
CC viral infections; and ataxia telangiectasia. The compounds are also
CC useful for treating pro-inflammatory responses such as allergies,
CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
CC sunburn, aging and arthritis
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 6; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 1 ADWSWA 6
RESULT 13
AAM48569

ID AAM48569 standard; peptide; 9 AA.
XX
AC AAM48569;
XX

DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 72.
XX

KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX
OS Synthetic.
XX
PN WO200183554-A2.
XX
PD 08-NOV-2001.
XX
PF 02-MAY-2001; 2001WO-US014346.
XX
PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX WPI; 2002-121889/16.
DR
XX Novel antiinflammatory compound comprising membrane translocation domain
PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
PT activation, and for treating asthma, lung inflammation, psoriasis.
XX
PS Claim 6; Page 62; 88pp; English.

CC The invention relates to an antiinflammatory compound (especially

CC	AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-	
CC	AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid	
CC	residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The	
CC	antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,	
CC	antirheumatic, antiarthritic, osteopathic, antibacterial,	
CC	immunosuppressive, dermatological, neuroprotective, nootropic,	
CC	antiatherosclerotic, virucide and antiallergic activity. The compounds	
CC	act as selective inhibitors of cytokine-mediated NFkappaB activation by	
CC	blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding	
CC	domain that results in inhibition of IKKbeta kinase activation and	
CC	subsequent decreased phosphorylation of IkappaB. The compounds are useful	
CC	for treating inflammatory disorders, e.g. asthma, lung inflammation or	
CC	cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory	
CC	bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as	
CC	lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;	
CC	transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;	
CC	viral infections; and ataxia telangiectasia. The compounds are also	
CC	useful for treating pro-inflammatory responses such as allergies,	
CC	urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,	
CC	sunburn, aging and arthritis	
XX		
SQ	Sequence 9 AA;	
	Query Match 100.0%; Score 6; DB 5; Length 9;	
	Best Local Similarity 100.0%; Pred. No. 1.4e+06;	
	Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 ADWSWA 6	
Db		
	1 ADWSWA 6	
RESULT 14		
AAM48572		
ID	AAM48572 standard; peptide; 9 AA.	
XX		
AC	AAM48572;	
XX		
DT	20-MAR-2002 (first entry)	
XX		
DE	Anti-inflammatory peptide SEQ ID NO 75.	
XX		
KW	Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;	
KW	antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;	
KW	immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;	
KW	antiallergic; membrane translocation domain; NEMO binding domain; eczema;	
KW	cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;	
KW	rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;	
KW	autoimmune disorder; multiple sclerosis; transplant rejection;	
KW	osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;	
KW	ataxia telangiectasia; allergy; anaphylaxis; arthritis.	
XX		
OS	Synthetic.	
XX		
PN	WO200183554-A2.	
XX		
PD	08-NOV-2001.	
XX		
PF	02-MAY-2001; 2001WO-US014346.	
XX		
PR	02-MAY-2000; 2000US-0201261P.	
PR	22-AUG-2000; 2000US-00643260.	
XX		
PA	(PRAE-) PRAECIS PHARM INC.	
PA	(UYVA) UNIV YALE.	
XX		
PI	May MJ, Ghosh S, Findeis MA, Phillips K;	
XX		
DR	WPI; 2002-121889/16.	
XX		
PT	Novel antiinflammatory compound comprising membrane translocation domain	
PT	fused to NEMO binding sequence, useful for blocking nuclear factor kappaB	
PT	activation, and for treating asthma, lung inflammation, psoriasis.	
XX		
PS		
XX		
CC	Claim 6; Page 62; 88pp; English.	
CC	The invention relates to an antiinflammatory compound (especially	
CC	AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-	
CC	AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid	
CC	residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The	
CC	antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,	
CC	antirheumatic, antiarthritic, osteopathic, antibacterial,	
CC	immunosuppressive, dermatological, neuroprotective, nootropic,	
CC	antiatherosclerotic, virucide and antiallergic activity. The compounds	
CC	act as selective inhibitors of cytokine-mediated NFkappaB activation by	
CC	blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding	
CC	domain that results in inhibition of IKKbeta kinase activation and	
CC	subsequent decreased phosphorylation of IkappaB. The compounds are useful	
CC	for treating inflammatory disorders, e.g. asthma, lung inflammation or	
CC	cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory	
CC	bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as	
CC	lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;	
CC	transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;	
CC	viral infections; and ataxia telangiectasia. The compounds are also	
CC	useful for treating pro-inflammatory responses such as allergies,	
CC	urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,	
CC	sunburn, aging and arthritis	
XX		
SQ	Sequence 9 AA;	
	Query Match 100.0%; Score 6; DB 5; Length 9;	
	Best Local Similarity 100.0%; Pred. No. 1.4e+06;	
	Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 ADWSWA 6	
Db		
	3 ADWSWA 8	
RESULT 15		
ADA61848		
ID	ADA61848 standard; peptide; 9 AA.	
XX		
AC	ADA61848;	
XX		
DT	20-NOV-2003 (first entry)	
XX		
DE	NFkB essential modulator (NEMO) binding peptide #48.	
XX		
KW	NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;	
KW	antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;	
KW	antiarthritic; osteopathic; antibacterial; immunosuppressive;	
KW	dermatological; neuroprotective; cytostatic; nootropic; virucide;	
KW	gene therapy; anti-inflammatory; inflammatory disorder; asthma;	
KW	psoriasis; rheumatoid arthritis; osteoarthritis;	
KW	inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;	
KW	systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;	
KW	Alzheimer's disease; viral infection; NF-kappa B essential modulator;	
KW	necrosis factor kappa B essential modulator.	
XX		
OS	Unidentified.	
XX		
PN	US2003054999-A1.	
XX		
PD	20-MAR-2003.	
XX		
PF	02-MAY-2001; 2001US-00847946.	
XX		
PR	02-MAY-2000; 2000US-0201261P.	
XX		
PA	(MAYM/) MAY M J.	
PA	(GHOS/) GHOSH S.	
PA	(FIND/) FINDEIS M A.	
PA	(PHIL/) PHILLIPS K.	
PA	(HANN/) HANNIG G.	
XX		

PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX
DR WPI; 2003-596541/56.
XX
PT New compound for diagnosing or treating inflammatory disorders, e.g.
PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
PT cancer, comprises a membrane translocation domain and a NEMO binding
PT sequence.
XX
PS Claim 6; Page 23; 37pp; English.
XX
CC The invention describes an anti-inflammatory compound comprising (I). The
CC compound is useful for diagnosing or treating inflammatory disorders,
CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
CC Alzheimer's disease or viral infection. This is the amino acid sequence
CC of an anti-inflammatory peptide that binds to, and down-regulates,
CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 6; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
| | | | |
Db 3 ADWSWA 8

Search completed: April 27, 2004, 08:57:04
Job time : 56 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:55:33 ; Search time 40 Seconds
(without alignments)
47.328 Million cell updates/sec

Title: US-09-847-940C-6
Perfect score: 6
Sequence: 1 ADWSWA 6

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 1017041 seqs, 315518202 residues

Word size : 0
Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

- Database : SPTREMBL 25:*
- 1: sp_archea:*
 - 2: sp_bacteria:*
 - 3: sp_fungi:*
 - 4: sp_human:*
 - 5: sp_invertebrate:*
 - 6: sp_mammal:*
 - 7: sp_mhc:*
 - 8: sp_organelle:*
 - 9: sp_phage:*
 - 10: sp_plant:*
 - 11: sp_rodent:*
 - 12: sp_virus:*
 - 13: sp_vertebrate:*
 - 14: sp_unclassified:*
 - 15: sp_rvirus:*
 - 16: sp_bacteriap:*
 - 17: sp_archheap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES					
Result No.	Score	Query Match	Length	ID	Description
1	5	83.3	205	16 Q9ACR5	Q9acr5 streptomyce
2	5	83.3	227	4 Q8IXK8	Q8ixk8 homo sapien
3	5	83.3	228	8 Q7YGU8	Q7ygu8 sphenodon p
4	5	83.3	236	3 Q8NJY9	Q8njy9 bionectria
5	5	83.3	242	12 Q919K8	Q919k8 culex nigri
6	5	83.3	274	16 Q8G659	Q8g659 bifidobacte
7	5	83.3	355	11 Q8BIT9	Q8bit9 mus musculu
8	5	83.3	358	10 O50002	O50002 prunus arme
9	5	83.3	374	16 Q9HZ10	Q9hz10 pseudomonas
10	5	83.3	375	5 Q86KS0	Q86ks0 dictyosteli
11	5	83.3	426	5 Q86KF9	Q86kf9 dictyosteli
12	5	83.3	433	16 Q8P4A1	Q8p4a1 xanthomonas
13	5	83.3	438	16 Q8PFV8	Q8pfv8 xanthomonas
14	5	83.3	452	4 Q96AB7	Q96ab7 homo sapien
15	5	83.3	463	5 Q8MMJ0	Q8mmj0 apis cerana
16	5	83.3	470	12 Q7TF27	Q7tf27 influenza a

17	5	83.3	477	11 Q9CYU6	Q9cyu6 mus musculu
18	5	83.3	484	4 Q9BTV6	Q9btv6 homo sapien
19	5	83.3	581	5 Q8MSH3	Q8msh3 drosophila
20	5	83.3	597	5 Q9VGP2	Q9vgp2 drosophila
21	5	83.3	605	16 Q82MX2	Q82mx2 streptomyce
22	5	83.3	889	16 Q9AAZ6	Q9aaz6 caulobacter
23	5	83.3	1005	10 Q9XGZ2	Q9xgz2 arabidopsis
24	5	83.3	5435	2 Q9L4X2	Q9l4x2 streptomyce
25	4	66.7	53	2 Q46496	Q46496 desulfoarcu
26	4	66.7	54	8 Q9XPF8	Q9xpf8 gonostoma g
27	4	66.7	57	10 Q84RU5	Q84ru5 oryza sativ
28	4	66.7	57	16 Q8YQ61	Q8yq61 anabaena sp
29	4	66.7	65	16 Q7UGI2	Q7ugi2 rhodopirell
30	4	66.7	74	16 Q99QG6	Q99qg6 streptomyce
31	4	66.7	76	6 Q862X5	Q862x5 bos taurus
32	4	66.7	77	16 Q7UUN4	Q7uun4 rhodopirell
33	4	66.7	77	16 Q7UGR5	Q7ugr5 rhodopirell
34	4	66.7	82	16 Q7V158	Q7vl58 prochloroco
35	4	66.7	85	16 Q8FBL8	Q8fbl8 escherichia
36	4	66.7	87	9 Q8HAI2	Q8hai2 salmonella
37	4	66.7	88	16 Q97SD6	Q97sd6 streptococc
38	4	66.7	88	16 Q8CZ62	Q8cz62 streptococc
39	4	66.7	90	2 Q9F9Z5	Q9f9z5 serratia en
40	4	66.7	92	10 Q8H6W2	Q8h6w2 ciccer ariet
41	4	66.7	93	2 Q939G8	Q939g8 pseudomonas
42	4	66.7	94	10 Q39643	Q39643 cucumis sat
43	4	66.7	95	15 Q9YT75	Q9yt75 human immun
44	4	66.7	96	16 Q7U4Q9	Q7u4q9 synecococc
45	4	66.7	98	16 Q8AAB6	Q8aab6 bacteroides

ALIGNMENTS

RESULT 1

Q9ACR5	ID	Q9ACR5	PRELIMINARY;	PRT;	205 AA.
AC	Q9ACR5;				
DT	01-JUN-2001	(TREMBlrel. 17, Created)			
DT	01-JUN-2001	(TREMBlrel. 17, Last sequence update)			
DT	01-JUN-2003	(TREMBlrel. 24, Last annotation update)			
DE	Hypothetical protein SCPl.253.				
GN	SCPl.253.				
OS	Streptomyces coelicolor.				
OG	Plasmid SCPl.				
OC	Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;				
OC	Streptomycineae; Streptomycetaceae; Streptomyces.				
OX	NCBI_TaxID=1902;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	STRAIN=A3(2);				
RX	MEDLINE=21996410; PubMed=12000953;				
RA	Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,				
RA	Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,				
RA	Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,				
RA	Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,				
RA	Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neil S.,				
RA	Rabbinowitsch E., Rajandream M.A., Rutherford K., Rutter S.,				
RA	Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,				
RA	Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,				
RA	Hopwood D.A.;				
RT	"Complete genome sequence of the model actinomycete Streptomyces				
RT	coelicolor A3(2).";				
RL	Nature 417:141-147(2002).				
DR	EMBL; AL590464; CAC36779.1; ..				
DR	GO; GO:0046821; C:extrachromosomal DNA; IEA.				
KW	Hypothetical protein; Plasmid; Complete proteome.				
SQ	SEQUENCE 205 AA; 23051 MW; 6602396CFF93F2D9 CRC64;				

Query Match 83.3%; Score 5; DB 16; Length 205;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
| | | | |
Db 10 ADWSW 14

RESULT 2
Q8IXK8 PRELIMINARY; PRT; 227 AA.
AC Q8IXK8;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Similar to hypothetical protein BC017335.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC040173; AAH40173.1; -.
KW Hypothetical protein.
SQ SEQUENCE 227 AA; 25487 MW; F11A71EA57062A05 CRC64;

Query Match 83.3%; Score 5; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
| | | | |
Db 113 ADWSW 117

RESULT 3
Q7YGUB PRELIMINARY; PRT; 228 AA.
AC Q7YGUB;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Cytochrome oxidase subunit II.
OS Sphenodon punctatus (Hatteria) (Tuatara).
OG Mitochondrion.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Sphenodontia; Sphenodontidae; Sphenodon.
OX NCBI_TaxID=8508;
RN [1]
RP SEQUENCE FROM N.A.
RA Rest J.S., Ast J.C., Austin C.C., Waddell P.J., Tibbetts E.A.,
RA Hay J.M., Mindell D.P.;
RT "Molecular systematics of primary reptilian lineages and the tuatara
mitochondrial genome."
RL Mol. Phylogenet. Evol. 0:0-0(2003).
DR EMBL; AF534390; AAP42708.1; -.
KW Mitochondrion.
SQ SEQUENCE 228 AA; 25903 MW; AC52448F76C9F0A4 CRC64;

Query Match 83.3%; Score 5; DB 8; Length 228;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWSWA 6
| | | | |
Db 221 DWSWA 225

RESULT 4
Q8NJY9 PRELIMINARY; PRT; 236 AA.
AC Q8NJY9;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)

DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Endoglucanase.
GN CEL12C.
OS Bionectria ochroleuca (Gliocladium roseum).
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Hypocreomycetidae; Hypocreales; Bionectriaceae; Bionectria.
OX NCBI_TaxID=29856;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22067395; PubMed=12073090;
RA Goedegebuur F., Fowler T., Phillips J., van der Kley P.,
RA van Solingen P., Dankmeyer L., Power S.D.;
RT "Cloning and relational analysis of 15 novel fungal endoglucanases
from family 12 glycosyl hydrolase."
RL Curr. Genet. 41:89-98(2002).
DR EMBL; AF435065; AAM77708.1; -.
DR GO; GO:000810; F:cellulase activity; IEA.
DR GO; GO:0000272; P:polysaccharide catabolism; IEA.
DR InterPro; IPR008985; ConA_like lec gl.
DR InterPro; IPR002594; Glyco_hydro_12.
DR Pfam; PF01670; Glyco_hydro_12; 1.
DR ProDom; PD004316; Glyco_hydro_12; 1.
SQ SEQUENCE 236 AA; 26024 MW; C3D8A7E33F0C41D8 CRC64;

Query Match 83.3%; Score 5; DB 3; Length 236;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
| | | | |
Db 63 ADWSW 67

RESULT 5
Q919K8 PRELIMINARY; PRT; 242 AA.
ID Q919K8;
AC Q919K8;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE CUN068 hypothetical protein.
GN CUN068.
OS Culex nigripalpus baculovirus.
OC Viruses; dsDNA viruses, no RNA stage; Baculoviridae.
OX NCBI_TaxID=130556;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Florida1997;
RX MEDLINE=21489685; PubMed=11602755;
RA Afonso C.L., Tulman E.R., Lu Z., Balinsky C.A., Moser B.A.,
RA Becnel J.J., Rock D.L., Kutish G.F.;
RT "Genome Sequence of a Baculovirus Pathogenic for Culex nigripalpus."
RL J. Virol. 75:11157-11165(2001).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Florida1997;
RA Afonso C.L., Tulman E.R., Lu Z., Balinsky C.A., Moser B.A.,
RA Becnel J.J., Rock D.L., Kutish G.F.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF403738; AAK94146.1; -.
KW Hypothetical protein.
SQ SEQUENCE 242 AA; 27222 MW; 6014967531110E52 CRC64;

Query Match 83.3%; Score 5; DB 12; Length 242;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWSWA 6
| | | | |
Db 80 DWSWA 84

RA	Stover C.K., Pham X.-Q.T., Erwin A.L., Mizoguchi S.D., Warrenner P.,				
RA	Hickey M.J., Brinkman F.S.L., Hufnagle W.O., Kowalik D.J., Lagrou M.,				
RA	Garber R.L., Goltzy L., Tolentino E., Westbrock-Wadman S., Yuan Y.,				
RA	Brody L.L., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M.,				
RA	Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T.,				
RA	Reizer J., Saier M.H., Hancock R.E.W., Lory S., Olson M.V.,				
RT	"Complete genome sequence of Pseudomonas aeruginosa PAO1, an				
RT	opportunistic pathogen.";				
RL	Nature 406:959-964(2000).				
DR	EMBL; AE004746; AAG06618.1; -.				
DR	PIR; B83241; B83241.				
DR	InterPro; IPR007434; DUF482.				
DR	Pfam; PF04339; DUF482; 1.				
KW	Hypothetical protein; Complete proteome.				
SQ	SEQUENCE 374 AA; 42269 MW; 31EF185C4F683884 CRC64;				
Query Match 83.3%; Score 5; DB 16; Length 374;					
Best Local Similarity 100.0%; Pred. No. 76;					
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	2 DWSWA 6				
Db	81 DWSWA 85				
RESULT 10					
Q86KS0					
ID	Q86KS0	PRELIMINARY;	PRT;	375 AA.	
AC	Q86KS0;				
DT	01-JUN-2003 (TrEMBLrel. 24, Created)				
DT	01-JUN-2003 (TrEMBLrel. 24, Last sequence update)				
DT	01-OCT-2003 (TrEMBLrel. 25, Last annotation update)				
DE	Hypothetical protein.				
OS	Dictyostelium discoideum (Slime mold).				
OC	Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.				
OX	NCBI_TaxID=44689;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	STRAIN=AX4;				
RX	MEDLINE=22092622; PubMed=12097910;				
RA	Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,				
RA	Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,				
RA	Tunggal B., Cox E., Quail M.A., Platzter M., Rosenthal A., Noegel A.A.;				
RT	"Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";				
RL	Nature 418:79-85(2002).				
RN	[2]				
RP	SEQUENCE FROM N.A.				
RC	STRAIN=AX4;				
RX	Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.				
RA	EMBL; AC115612; AAC50929.1; -.				
DR	GO; GO:0003824; P:catalytic activity; IEA.				
DR	GO; GO:0008152; P:metabolism; IEA.				
DR	InterPro; IPR000581; ILVD_EDD_family.				
DR	InterPro; IPR006970; PT.				
DR	Pfam; PF04886; PT; 1.				
DR	PROSITE; PS00886; ILVD_EDD_1; 1.				
KW	Hypothetical protein.				
SQ	SEQUENCE 375 AA; 41862 MW; EC9A1D744C56856E CRC64;				
Query Match 83.3%; Score 5; DB 5; Length 375;					
Best Local Similarity 100.0%; Pred. No. 76;					
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	2 DWSWA 6				
Db	47 DWSWA 51				
RESULT 11					
Q86KF9					
ID	Q86KF9	PRELIMINARY;	PRT;	426 AA.	
AC	Q86KF9;				

RA Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D.,
RA Trindade dos Santos M., Truffi D., Tsai S.M., White F.F.,
RA Setubal J.C., Kitajima J.P.;
RT "Comparison of the genomes of two Xanthomonas pathogens with differing
RT host specificities."
RL Nature 417:459-463(2002).
DR EMBL; AE012502; AAM43483.1; --
DR GO; GO:0016020; C:membrane; IEA.
DR GO; GO:0005279; F:amino acid-polyamine transporter activity; IEA.
DR GO; GO:0006865; P:amino acid transport; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR002293; AA/rel_permeasel.
DR InterPro; IPR004841; Permease_region.
DR Pfam; PF00324; aa_permeases; 1.
KW Complete proteome.
SQ SEQUENCE 433 AA; 45128 MW; EF217D2A7C516533 CRC64;

Query Match 83.3%; Score 5; DB 16; Length 433;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWSWA 6
Db 181 DWSWA 185

RESULT 13
Q8PFV8 ID Q8PFV8 PRELIMINARY; PRT; 438 AA.
AC Q8PFV8;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Cationic amino acid transporter.
GN XAC3864.
OS Xanthomonas axonopodis (pv. citri).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
OC Xanthomonadaceae; Xanthomonas.
OX NCBI_TaxID=92829;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=306 / ATCC 13902 / XV 101;
RX MEDLINE=22022145; PubMed=12024217;
RA da Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,
RA Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,
RA Alves L.M.C., do Amaral A.M., Bertolini M.C., Camargo L.E.A.,
RA Camarotte G., Cannavan F., Cardozo J., Chambergo F., Ciapina L.P.,
RA Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorri H.,
RA Faria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T.,
RA Formighieri E.F., Franco M.C., Greggio C.C., Gruber A.,
RA Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,
RA Locali E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,
RA Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,
RA Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,
RA Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,
RA Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D.,
RA Trindade dos Santos M., Truffi D., Tsai S.M., White F.F.,
RA Setubal J.C., Kitajima J.P.;
RT "Comparison of the genomes of two Xanthomonas pathogens with differing
RT host specificities."
RL Nature 417:459-463(2002).
DR EMBL; AE012036; AAM38706.1; --
DR GO; GO:0016020; C:membrane; IEA.
DR GO; GO:0005279; F:amino acid-polyamine transporter activity; IEA.
DR GO; GO:0006865; P:amino acid transport; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR002293; AA/rel_permeasel.
DR InterPro; IPR004841; Permease_region.
DR Pfam; PF00324; aa_permeases; 1.
KW Complete proteome.
SQ SEQUENCE 438 AA; 45795 MW; 921AC5AC60A545E2 CRC64;

Query Match 83.3%; Score 5; DB 16; Length 438;

RA Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D.,
RA Trindade dos Santos M., Truffi D., Tsai S.M., White F.F.,
RA Setubal J.C., Kitajima J.P.;
RT "Comparison of the genomes of two Xanthomonas pathogens with differing
RT host specificities."
RL Nature 417:459-463(2002).
DR EMBL; AE012502; AAM43483.1; --
DR GO; GO:0016020; C:membrane; IEA.
DR GO; GO:0005279; F:amino acid-polyamine transporter activity; IEA.
DR GO; GO:0006865; P:amino acid transport; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR002293; AA/rel_permeasel.
DR InterPro; IPR004841; Permease_region.
DR Pfam; PF00324; aa_permeases; 1.
KW Complete proteome.
SQ SEQUENCE 433 AA; 45128 MW; EF217D2A7C516533 CRC64;

Best Local Similarity 100.0%; Pred. No. 88;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWSWA 6
Db 183 DWSWA 187

RESULT 14
Q96AB7 ID Q96AB7 PRELIMINARY; PRT; 452 AA.
AC Q96AB7;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Hypothetical protein FLJ90634.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RA Strausberg R.;
RL Submitted (NOV-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RA Isogai T., Ota T., Nishikawa T., Hayashi K., Otsuki T., Sugiyama T.,
RA Suzuki Y., Nagai K., Sugano S., Ishii S., Kawai-Hio Y., Saito K.,
RA Yamamoto J., Wakamatsu A., Nakamura Y., Kojima S., Nagahari K.,
RA Masuho Y., Ono T., Okano K., Yoshikawa Y., Aotsuka S., Sasaki N.,
RA Hattori A., Okumura K., Iwayanagi T., Ninomiya K.;
RT "NEDO human cDNA sequencing project."
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC017335; AAH17335.1; --
DR EMBL; AK075115; BAC11411.1; --
DR InterPro; IPR001680; WD40.
DR Pfam; PF00400; WD40; 2.
DR PROSITE; PS00678; WD_REPEATS_1; 2.
DR PROSITE; PS50082; WD_REPEATS_2; 1.
DR PROSITE; PS50294; WD_REPEATS_REGION; 1.
KW Hypothetical protein; Repeat; WD repeat.
SQ SEQUENCE 452 AA; 50575 MW; B79D25EE38096733 CRC64;

Query Match 83.3%; Score 5; DB 4; Length 452;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 338 ADWSW 342

RESULT 15
Q8MMJ0 ID Q8MMJ0 PRELIMINARY; PRT; 463 AA.
AC Q8MMJ0;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Major royal jelly protein MRJP2 precursor.
GN MRJP2.
OS Apis cerana (Indian honeybee).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea;
OC Apidae; Apis.
OX NCBI_TaxID=7461;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Nurse heads;
RA Sittipraneed S., Imjongjirak C.;
RT "Molecular Cloning of Major Royal Jelly Protein (MRJP2) cDNA from Apis

RT cerana in Thailand.";
RL Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.
DR EMBL; AF525777; AAM8282.1; -.
DR InterPro; IPR003534; Royaljelly.
DR Pfam; PF03022; MRJP; 1.
DR PRINTS; PR01366; ROYALJELLY.
KW Signal.
FT SIGNAL 1 17 POTENTIAL.
SQ SEQUENCE 463 AA; 52412 MW; D648AE2BAF1EDDE9 CRC64;

Query Match 83.3%; Score 5; DB 5; Length 463;
Best Local Similarity 100.0%; Pred. No. 92;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWSWA 6
|||
Db 110 DWSWA 114

Search completed: April 27, 2004, 08:57:58
Job time : 42 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:55:33 ; Search time 11 Seconds
(without alignments)
28.402 Million cell updates/sec

Title: US-09-847-940C-6
Perfect score: 6
Sequence: 1 ADWSWA 6

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 141681 seqs, 52070155 residues

Word size : 0
Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	5	83.3	470	1 NRAM_IADBU	Q07570 influenza a
2	5	83.3	470	1 NRAM_IADCH	Q07571 influenza a
3	5	83.3	470	1 NRAM_IADH2	Q07572 influenza a
4	5	83.3	470	1 NRAM_IADM2	Q07573 influenza a
5	5	83.3	470	1 NRAM_IADU3	Q07599 influenza a
6	5	83.3	470	1 NRAM_IAGFN	Q07574 influenza a
7	5	83.3	470	1 NRAM_IAGHD	Q07577 influenza a
8	5	83.3	470	1 NRAM_IAHJI	Q07578 influenza a
9	5	83.3	470	1 NRAM_IAMAE	Q07583 influenza a
10	5	83.3	470	1 NRAM_IATXL	Q07585 influenza a
11	5	83.3	598	1 MRJ5_APIME	Q97432 apis mellif
12	4	66.7	31	1 LCCB_LEUME	P81052 leuconostoc
13	4	66.7	36	1 TXD3_PARLU	P83258 paracoelote
14	4	66.7	37	1 TXD1_PARLU	P83256 paracoelote
15	4	66.7	93	1 ACYP_WYCTU	P56543 mycobacteri
16	4	66.7	114	1 Y451_BUCAP	Q8k998 buchnera ap
17	4	66.7	128	1 YRDN_BACSU	P94502 bacillus su
18	4	66.7	147	1 VG29_BPMD2	O64223 mycobacteri
19	4	66.7	147	1 VG29_BPM15	Q05236 mycobacteri
20	4	66.7	160	1 YB19_PSEPK	Q88nt5 pseudomonas
21	4	66.7	169	1 CX41_MOUSE	P19783 mus musculu
22	4	66.7	169	1 CX41_RAT	P10888 rattus norv
23	4	66.7	182	1 RL18_HALN1	P50562 halobacteri
24	4	66.7	197	1 YE21_AQUAE	O67415 aquifex aeo
25	4	66.7	200	1 HAM1_STRPN	Q97nx3 streptococc
26	4	66.7	208	1 TATB_XANAC	Q8pex3 xanthomonas
27	4	66.7	213	1 VNCN_PAVBO	P07295 bovine parv
28	4	66.7	227	1 RECO_PSESM	Q87xg3 pseudomonas
29	4	66.7	233	1 RECO_PSEAE	Q9xcx7 pseudomonas
30	4	66.7	237	1 UBIE_LISMO	Q92a77 listeria mo
31	4	66.7	256	1 TAM_RHILO	Q98k73 rhizobium l
32	4	66.7	257	1 YK09_RALSO	Q8xxv4 ralstonia s
33	4	66.7	262	1 DET2_ARATH	Q38944 arabidopsis s

RESULT 1									
NRAM_IADBU									
ID	NRAM_IADBU	STANDARD;	PRT;	470 AA.					
AC	Q07570;								
DT	01-FEB-1995 (Rel. 31, Created)								
DT	01-FEB-1995 (Rel. 31, Last sequence update)								
DT	28-FEB-2003 (Rel. 41, Last annotation update)								
DE	Neuraminidase (EC 3.2.1.18).								
GN	NA.								
OS	Influenza A virus (strain A/Duck/Burjatia/652/88).								
OC	Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;								
OC	Influenza A viruses; Influenzavirus A.								
OX	NCBI_TaxID=38956;								
RN	[1]								
RP	SEQUENCE FROM N.A.								
RX	MEDLINE=93212520; PubMed=8460490;								
RA	Saito T., Kawaoka Y., Webster R.G.;								
RT	"Phylogenetic analysis of the N8 neuraminidase gene of influenza A								
RT	viruses.";								
RL	Virology 193:868-876(1993).								
CC	-!- FUNCTION: Removes the terminal sialic acid from carbohydrate side								
CC	chains of the host cell surface proteins and from the viral								
CC	envelope. Such a reaction prevents self-aggregation and facilitate								
CC	the mobility of the virus to and from the site of infection.								
CC	-!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,								
CC	alpha-(2->8)-glycosidic linkages of terminal sialic residues in								
CC	oligosaccharides, glycoproteins, glycolipids, colominic acid and								
CC	synthetic substrates.								
CC	-!- SUBUNIT: Homotetramer.								
CC	-!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped								
CC	spike on the surface of the virion.								
CC	-!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.								
CC	-----								
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration								
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -								
CC	the European Bioinformatics Institute. There are no restrictions on its								
CC	use by non-profit institutions as long as its content is in no way								
CC	modified and this statement is not removed. Usage by and for commercial								
CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/								
CC	or send an email to license@isb-sib.ch).								
CC	-----								
DR	EMBL; L06572; AAA43365.1; -.								
DR	HSSP; P06820; 2BAT.								
DR	InterPro; IPR001860; Glyco_hydro_34.								
DR	Pfam; PF00064; neur; 1.								
DR	ProDom; PD000431; Glyco_hydro_34; 1.								
KW	Hydrolase; Glycosidase; Glycoprotein; Transmembrane.								
FT	TRANSMEM 7 38 ANCHOR (BY SIMILARITY).								
FT	DOMAIN 39 88 HYPERVARIABLE STALK REGION.								
FT	DOMAIN 89 470 HEAD OF NEURAMINIDASE.								
FT	ACT_SITE 273 273 BY SIMILARITY.								
FT	ACT_SITE 275 275 BY SIMILARITY.								
FT	CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).								
FT	CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).								
FT	CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).								
FT	CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).								

P23135 rhodospiril
Q96kn8 homo sapien
Q9i6v7 pseudomonas
P04395 escherichia
P42378 pseudomonas
P39767 rhodopsendo
P24037 pseudomonas
P26452 bos taurus
P38982 cricetus
P08865 homo sapien
P14206 mus musculu
P38983 rattus norv

ALIGNMENTS

FT CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL)
SQ SEQUENCE 470 AA; 51989 MW; D1A6F07460F6F8AD CRC64;

Query Match 83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 453 ADWSW 457

RESULT 2

NRAM_IADCH STANDARD; PRT; 470 AA.

DT 01-FEB-1995 (Rel. 31, Created)
DT 01-FEB-1995 (Rel. 31, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neuraminidase (EC 3.2.1.18).
GN NA.

OS Influenza A virus (strain A/Duck/Chabarovsk/1610/72).
OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC Influenza A viruses; Influenzavirus A.
OX NCBI_TaxID=38957;
RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=93212520; PubMed=8460490;
RA Saito T., Kawaoka Y., Webster R.G.;

RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A viruses.";
RL Virology 193:868-876(1993).

CC -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.

CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.

CC -!- SUBUNIT: Homotetramer.

CC -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped spike on the surface of the virion.

CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.

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DR EMBL; L06573; AAA43367.1; -.

DR HSSP; P06820; 2BAT.

DR InterPro; IPR001860; Glyco_hydro_34.

DR Pfam; PF00064; neur; 1.

DR ProDom; PD000431; Glyco_hydro_34; 1.

KW Hydrolase; Glycosidase; Glycoprotein; Transmembrane.

FT TRANSMEM 7 38 ANCHOR (BY SIMILARITY).

FT DOMAIN 39 88 HYPERVARIABLE STALK REGION.

FT DOMAIN 89 470 HEAD OF NEURAMINIDASE.

FT ACT_SITE 273 273 BY SIMILARITY.

FT ACT_SITE 275 275 BY SIMILARITY.

FT CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 84 84 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL).

SQ SEQUENCE 470 AA; 52070 MW; 169AB89FBE8006DC CRC64;

Query Match

83.3%; Score 5; DB 1; Length 470;

Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 453 ADWSW 457

RESULT 3

NRAM_IADH2

ID_NRAM_IADH2 STANDARD; PRT; 470 AA.

AC Q07572;

DT 01-FEB-1995 (Rel. 31, Created)

DT 01-FEB-1995 (Rel. 31, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Neuraminidase (EC 3.2.1.18).

GN NA.

OS Influenza A virus (strain A/Duck/Hokkaido/8/80).

OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;

OC Influenza A viruses; Influenzavirus A.

OX NCBI_TaxID=11358;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=93212520; PubMed=8460490;

RA Saito T., Kawaoka Y., Webster R.G.;

RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A viruses.";

RL Virology 193:868-876(1993).

CC -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.

CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.

CC -!- SUBUNIT: Homotetramer.

CC -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped spike on the surface of the virion.

CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.

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DR EMBL; L06574; AAA43372.1; -.

DR HSSP; P06820; 2BAT.

DR InterPro; IPR001860; Glyco_hydro_34.

DR Pfam; PF00064; neur; 1.

DR ProDom; PD000431; Glyco_hydro_34; 1.

KW Hydrolase; Glycosidase; Glycoprotein; Transmembrane.

FT TRANSMEM 7 38 ANCHOR (BY SIMILARITY).

FT DOMAIN 39 88 HYPERVARIABLE STALK REGION.

FT DOMAIN 89 470 HEAD OF NEURAMINIDASE.

FT ACT_SITE 273 273 BY SIMILARITY.

FT ACT_SITE 275 275 BY SIMILARITY.

FT CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 84 84 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL).

SQ SEQUENCE 470 AA; 52015 MW; E1C1D3E2C650B93C CRC64;

Query Match

83.3%; Score 5; DB 1; Length 470;

Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5


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Db          453 ADWSW 457

RESULT 4
NRAM_IADM2
ID_NRAM_IADM2      STANDARD;      PRT;      470 AA.
AC  Q07573;
DT  01-FEB-1995 (Rel. 31, Created)
DT  01-FEB-1995 (Rel. 31, Last sequence update)
DT  28-FEB-2003 (Rel. 41, Last annotation update)
DE  Neuraminidase (EC 3.2.1.18).
GN  NA.
OS  Influenza A virus (strain A/Duck/Memphis/928/74).
OC  Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC  Influenza A viruses; Influenzavirus A.
OX  NCBI_TaxID=11367;
RN  [1]
RP  SEQUENCE FROM N.A.
RX  MEDLINE=93212520; PubMed=8460490;
RA  Saito T., Kawaoka Y., Webster R.G.;
RT  "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
    viruses.";
RL  Virology 193:868-876(1993).
CC  -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side
CC  chains of the host cell surface proteins and from the viral
CC  envelope. Such a reaction prevents self-aggregation and facilitate
CC  the mobility of the virus to and from the site of infection.
CC  -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,
CC  alpha-(2->8)-glycosidic linkages of terminal sialic residues in
CC  oligosaccharides, glycoproteins, glycolipids, colominic acid and
CC  synthetic substrates.
CC  -!- SUBUNIT: Homotetramer.
CC  -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped
CC  spike on the surface of the virion.
CC  -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
-----
CC  This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC  use by non-profit institutions as long as its content is in no way
CC  modified and this statement is not removed. Usage by and for commercial
CC  entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC  or send an email to license@isb-sib.ch).
-----
DR  EMBL; L06575; AAA3404.1; -.
DR  HSSP; P06820; 2BAT.
DR  InterPro; IPR001860; Glyco_hydro_34.
DR  Pfam; PF00064; neur; 1.
DR  ProDom; PD000431; Glyco_hydro_34; 1.
KW  Hydrolase; Glycosidase; Glycoprotein; Transmembrane.
FT  TRANSMEM 7 38 ANCHOR (BY SIMILARITY).
FT  DOMAIN 39 88 HYPERVARIABLE STALK REGION.
FT  DOMAIN 89 470 HEAD OF NEURAMINIDASE.
FT  ACT_SITE 273 273 BY SIMILARITY.
FT  ACT_SITE 275 275 BY SIMILARITY.
FT  CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 84 84 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ  SEQUENCE 470 AA; 52146 MW; 30F5F9F364C1F49 CRC64;

Query Match      83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1 ADWSW 5
Db          453 ADWSW 457

RESULT 6
NRAM_IAGFN
ID_NRAM_IAGFN      STANDARD;      PRT;      470 AA.
AC  Q07574;
DT  01-FEB-1995 (Rel. 31, Created)
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RESULT 5
NRAM_IADU3
ID_NRAM_IADU3      STANDARD;      PRT;      470 AA.
AC  Q07599;
DT  01-OCT-1994 (Rel. 30, Created)
DT  01-OCT-1994 (Rel. 30, Last sequence update)
DT  28-FEB-2003 (Rel. 41, Last annotation update)
DE  Neuraminidase (EC 3.2.1.18).
GN  NA.
OS  Influenza A virus (strain A/Duck/Ukraine/1/63).
OC  Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC  Influenza A viruses; Influenzavirus A.
OX  NCBI_TaxID=11374;
RN  [1]
RP  SEQUENCE FROM N.A.
RX  MEDLINE=93212520; PubMed=8460490;
RA  Saito T., Kawaoka Y., Webster R.G.;
RT  "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
    viruses.";
RL  Virology 193:868-876(1993).
CC  -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side
CC  chains of the host cell surface proteins and from the viral
CC  envelope. Such a reaction prevents self-aggregation and facilitate
CC  the mobility of the virus to and from the site of infection.
CC  -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,
CC  alpha-(2->8)-glycosidic linkages of terminal sialic residues in
CC  oligosaccharides, glycoproteins, glycolipids, colominic acid and
CC  synthetic substrates.
CC  -!- SUBUNIT: Homotetramer.
CC  -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped
CC  spike on the surface of the virion.
CC  -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
-----
CC  This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC  modified and this statement is not removed. Usage by and for commercial
CC  entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC  or send an email to license@isb-sib.ch).
-----
DR  EMBL; L06576; AAA16234.1; -.
DR  HSSP; P06820; 2BAT.
DR  InterPro; IPR001860; Glyco_hydro_34.
DR  Pfam; PF00064; neur; 1.
DR  ProDom; PD000431; Glyco_hydro_34; 1.
KW  Hydrolase; Glycosidase; Glycoprotein; Transmembrane.
FT  TRANSMEM 7 37 ANCHOR (BY SIMILARITY).
FT  DOMAIN 38 88 HYPERVARIABLE STALK REGION.
FT  DOMAIN 89 470 HEAD OF NEURAMINIDASE.
FT  ACT_SITE 273 273 PROBABLE.
FT  ACT_SITE 275 275 PROBABLE.
FT  CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 84 84 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT  CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ  SEQUENCE 470 AA; 51960 MW; B46D54A03AC84CCE CRC64;

Query Match      83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1 ADWSW 5
Db          453 ADWSW 457

RESULT 6
NRAM_IAGFN
ID_NRAM_IAGFN      STANDARD;      PRT;      470 AA.
AC  Q07574;
DT  01-FEB-1995 (Rel. 31, Created)
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DT 01-FEB-1995 (Rel. 31, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neuraminidase (EC 3.2.1.18).
GN NA.
OS Influenza A virus (strain A/Guinea fowl/New York/4-3587/84).
OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC Influenza A viruses; Influenzavirus A.
OX NCBI_TaxID=38963;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=93212520; PubMed=8460490;
RA Saito T., Kawaoka Y., Webster R.G.;
RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
RT viruses.";
RL Virology 193:868-876(1993).
CC -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side
CC chains of the host cell surface proteins and from the viral
CC envelope. Such a reaction prevents self-aggregation and facilitate
CC the mobility of the virus to and from the site of infection.
CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,
CC alpha-(2->8)-glycosidic linkages of terminal sialic residues in
CC oligosaccharides, glycoproteins, glycolipids, colominic acid and
CC synthetic substrates.
CC -!- SUBUNIT: Homotetramer.
CC -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped
CC spike on the surface of the virion.
CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
CC -----
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CC use by non-profit institutions as long as its content is in no way
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; L06584; AAA43428.1; -.
DR HSSP; P06820; 2BAT.
DR InterPro; IPR001860; Glyco_hydro_34.
DR Pfam; PF00064; neur; 1.
DR ProDom; PD000431; Glyco_hydro_34; 1.
KW Hydrolase; Glycosidase; Glycoprotein; Transmembrane.
FT TRANSMEM 7 38 ANCHOR (BY SIMILARITY).
FT DOMAIN 39 88 HYPERVARIABLE STALK REGION.
FT ACT_SITE 273 273 BY SIMILARITY.
FT ACT_SITE 275 275 BY SIMILARITY.
FT CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 84 84 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 470 AA; 52348 MW; D3BD2AAC0159FE66 CRC64;

Query Match 83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 453 ADWSW 457

RESULT 7
NRAM_IAHGD STANDARD; PRT; 470 AA.
AC Q07577;
DT 01-FEB-1995 (Rel. 31, Created)
DT 01-FEB-1995 (Rel. 31, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neuraminidase (EC 3.2.1.18).
GN NA.

OS Influenza A virus (strain A/Herring gull/DE/677/88).
OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC Influenza A viruses; Influenzavirus A.
OX NCBI_TaxID=38964;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=93212520; PubMed=8460490;
RA Saito T., Kawaoka Y., Webster R.G.;
RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
RT viruses.";
RL Virology 193:868-876(1993).
CC -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side
CC chains of the host cell surface proteins and from the viral
CC envelope. Such a reaction prevents self-aggregation and facilitate
CC the mobility of the virus to and from the site of infection.
CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,
CC alpha-(2->8)-glycosidic linkages of terminal sialic residues in
CC oligosaccharides, glycoproteins, glycolipids, colominic acid and
CC synthetic substrates.
CC -!- SUBUNIT: Homotetramer.
CC -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped
CC spike on the surface of the virion.
CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; L06585; AAA43368.1; -.
DR HSSP; P06820; 2BAT.
DR InterPro; IPR001860; Glyco_hydro_34.
DR Pfam; PF00064; neur; 1.
DR ProDom; PD000431; Glyco_hydro_34; 1.
KW Hydrolase; Glycosidase; Glycoprotein; Transmembrane.
FT TRANSMEM 7 38 ANCHOR (BY SIMILARITY).
FT DOMAIN 39 88 HYPERVARIABLE STALK REGION.
FT ACT_SITE 273 273 BY SIMILARITY.
FT ACT_SITE 275 275 BY SIMILARITY.
FT CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 84 84 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 470 AA; 52265 MW; 28AF0B75E80539B7 CRC64;

Query Match 83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 453 ADWSW 457

RESULT 8
NRAM_IAHJI STANDARD; PRT; 470 AA.
AC Q07578;
DT 01-FEB-1995 (Rel. 31, Created)
DT 01-FEB-1995 (Rel. 31, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neuraminidase (EC 3.2.1.18).
GN NA.
OS Influenza A virus (strain A/Equine/Jilllin/1/89).
OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC Influenza A viruses; Influenzavirus A.
OX NCBI_TaxID=11401;

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RN  SEQUENCE FROM N.A.
RP  MEDLINE=93212520; PubMed=8460490;
RA  Saito T., Kawaoka Y., Webster R.G.;
RT  "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
RT  viruses.";
RL  Virology 193:868-876(1993).
CC  -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side
CC  chains of the host cell surface proteins and from the viral
CC  envelope. Such a reaction prevents self-aggregation and facilitate
CC  the mobility of the virus to and from the site of infection.
CC  -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,
CC  alpha-(2->8)-glycosidic linkages of terminal sialic residues in
CC  oligosaccharides, glycoproteins, glycolipids, colominic acid and
CC  synthetic substrates.
CC  -!- SUBUNIT: Homotetramer.
CC  -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped
CC  spike on the surface of the virion.
CC  -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
CC  -----
CC  This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC  use by non-profit institutions as long as its content is in no way
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CC  entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC  or send an email to license@isb-sib.ch).
CC  -----
DR  EMBL; L06579; AAA43374.1; -.
DR  HSSP; P06820; 2BAT.
DR  InterPro; IPR001860; Glyco_hydro_34.
DR  Pfam; PF00064; neur; 1.
DR  ProDom; PD000431; Glyco_hydro_34; 1.
KW  Hydrolase; Glycosidase; Glycoprotein; Transmembrane.
FT  TRANSMEM 7 38 ANCHOR (BY SIMILARITY).
FT  DOMAIN 39 88 HYPERVARIABLE STALK REGION.
FT  DOMAIN 89 470 HEAD OF NEURAMINIDASE.
FT  ACT_SITE 273 273 BY SIMILARITY.
FT  ACT_SITE 275 275 BY SIMILARITY.
FT  CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ  SEQUENCE 470 AA; 52234 MW; CE50B21050A37668 CRC64;

Query Match 83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 453 ADWSW 457

RESULT 9
NRAM_IAMAE STANDARD; PRT; 470 AA.
AC Q07583;
DT 01-FEB-1995 (Rel. 31, Created)
DT 01-FEB-1995 (Rel. 31, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neuraminidase (EC 3.2.1.18).
GN NA.
OS Influenza A virus (strain A/Mallard/Edmonton/220/90).
OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC Influenza A viruses; Influenzavirus A.
OX NCBI_TaxID=38965;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=93212520; PubMed=8460490;
RA Saito T., Kawaoka Y., Webster R.G.;
RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
RT viruses.";
RL Virology 193:868-876(1993).
CC  -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side
CC  chains of the host cell surface proteins and from the viral
CC  envelope. Such a reaction prevents self-aggregation and facilitate
CC  the mobility of the virus to and from the site of infection.
CC  -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,
CC  alpha-(2->8)-glycosidic linkages of terminal sialic residues in
CC  oligosaccharides, glycoproteins, glycolipids, colominic acid and
CC  synthetic substrates.
CC  -!- SUBUNIT: Homotetramer.
CC  -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped
CC  spike on the surface of the virion.
CC  -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
CC  -----
CC  This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC  use by non-profit institutions as long as its content is in no way
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CC  entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC  or send an email to license@isb-sib.ch).
CC  -----
DR  EMBL; L06579; AAA43374.1; -.
DR  HSSP; P06820; 2BAT.
DR  InterPro; IPR001860; Glyco_hydro_34.
DR  Pfam; PF00064; neur; 1.
DR  ProDom; PD000431; Glyco_hydro_34; 1.
KW  Hydrolase; Glycosidase; Glycoprotein; Transmembrane.
FT  TRANSMEM 7 38 ANCHOR (BY SIMILARITY).
FT  DOMAIN 39 88 HYPERVARIABLE STALK REGION.
FT  DOMAIN 89 470 HEAD OF NEURAMINIDASE.
FT  ACT_SITE 273 273 BY SIMILARITY.
FT  ACT_SITE 275 275 BY SIMILARITY.
FT  CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ  SEQUENCE 470 AA; 52234 MW; CE50B21050A37668 CRC64;

Query Match 83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 453 ADWSW 457

RESULT 9
NRAM_IAMAE STANDARD; PRT; 470 AA.
AC Q07583;
DT 01-FEB-1995 (Rel. 31, Created)
DT 01-FEB-1995 (Rel. 31, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neuraminidase (EC 3.2.1.18).
GN NA.
OS Influenza A virus (strain A/Mallard/Edmonton/220/90).
OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC Influenza A viruses; Influenzavirus A.
OX NCBI_TaxID=38965;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=93212520; PubMed=8460490;
RA Saito T., Kawaoka Y., Webster R.G.;
RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
RT viruses.";
RL Virology 193:868-876(1993).
CC  -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side

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RT  "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
RT  viruses.";
RL  Virology 193:868-876(1993).
CC  -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side
CC  chains of the host cell surface proteins and from the viral
CC  envelope. Such a reaction prevents self-aggregation and facilitate
CC  the mobility of the virus to and from the site of infection.
CC  -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,
CC  alpha-(2->8)-glycosidic linkages of terminal sialic residues in
CC  oligosaccharides, glycoproteins, glycolipids, colominic acid and
CC  synthetic substrates.
CC  -!- SUBUNIT: Homotetramer.
CC  -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped
CC  spike on the surface of the virion.
CC  -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
CC  -----
CC  This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC  use by non-profit institutions as long as its content is in no way
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CC  or send an email to license@isb-sib.ch).
CC  -----
DR  EMBL; L06586; AAA43369.1; -.
DR  HSSP; P06820; 2BAT.
DR  InterPro; IPR001860; Glyco_hydro_34.
DR  Pfam; PF00064; neur; 1.
DR  ProDom; PD000431; Glyco_hydro_34; 1.
KW  Hydrolase; Glycosidase; Glycoprotein; Transmembrane.
FT  TRANSMEM 7 38 ANCHOR (BY SIMILARITY).
FT  DOMAIN 39 88 HYPERVARIABLE STALK REGION.
FT  DOMAIN 89 470 HEAD OF NEURAMINIDASE.
FT  ACT_SITE 273 273 BY SIMILARITY.
FT  ACT_SITE 275 275 BY SIMILARITY.
FT  CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).
FT  CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ  SEQUENCE 470 AA; 52070 MW; 557630C3E11F2765 CRC64;

Query Match 83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 453 ADWSW 457

RESULT 10
NRAM_IATKL STANDARD; PRT; 470 AA.
AC Q07585;
DT 01-FEB-1995 (Rel. 31, Created)
DT 01-FEB-1995 (Rel. 31, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neuraminidase (EC 3.2.1.18).
GN NA.
OS Influenza A virus (strain A/Turkey/Minnesota/501/78).
OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
OC Influenza A viruses; Influenzavirus A.
OX NCBI_TaxID=38984;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=93212520; PubMed=8460490;
RA Saito T., Kawaoka Y., Webster R.G.;
RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A
RT viruses.";
RL Virology 193:868-876(1993).
CC  -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side

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CC chains of the host cell surface proteins and from the viral
CC envelope. Such a reaction prevents self-aggregation and facilitate
CC the mobility of the virus to and from the site of infection.
CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-,
CC alpha-(2->8)-glycosidic linkages of terminal sialic residues in
CC oligosaccharides, glycoproteins, glycolipids, colominic acid and
CC synthetic substrates.
CC -!- SUBUNIT: Homotetramer.
CC -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped
CC spike on the surface of the virion.
CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; L06588; AAA43410.1; -.
CC HSSP; P06820; 2BAT.
CC InterPro; IPR001860; Glyco_hydro_34.
CC Pfam; PF00064; neur; 1.
CC ProDom; PD000431; Glyco_hydro_34; 1.
CC Hydrolase; Glycosidase; Glycoprotein; Transmembrane.
CC TRANSMEM 7 38
CC DOMAIN 39 88 ANCHOR (BY SIMILARITY).
CC HYPERVARIABLE STALK REGION.
CC FT DOMAIN 89 470 HEAD OF NEURAMINIDASE.
CC FT ACT_SITE 273 275 BY SIMILARITY.
CC FT ACT_SITE 275 275 BY SIMILARITY.
CC FT CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC FT CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC FT CARBOHYD 84 84 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC FT CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC FT CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC FT CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC SQ SEQUENCE 470 AA; 52352 MW; DE573742ABFF1E6B CRC64;

Query Match 83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
Db 453 ADWSW 457

RESULT 11
MRJ5_APIME STANDARD; PRT; 598 AA.
AC O97432;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Major royal jelly protein 5 precursor (MRJP-5) (Bee-milk protein).
GN MRJP5.
OS Apis mellifera (Honeybee).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea;
OC Apidae; Apis.
OX NCBI_TaxID=7460;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Head;
RX MEDLINE=99373663; PubMed=10441680;
RA Albert S., Bhattacharya D., Klaudiny J., Schmitzova J., Simuth J.;
RT "The family of major royal jelly proteins and its evolution.";
RL J. Mol. Evol. 49:290-297(1999).
CC -!- FUNCTION: MAY PLAY AN IMPORTANT ROLE IN HONEYBEE NUTRITION. IT IS
CC FOUND IN THE ROYAL JELLY WHICH IS THE FOOD OF THE QUEEN HONEY BEE
CC LARVA. THE ROYAL JELLY DETERMINES THE DEVELOPMENT OF THE YOUNG
CC LARVAE AND IS RESPONSIBLE FOR THE HIGH REPRODUCTIVE ABILITY OF THE
```

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CC HONEYBEE QUEEN.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Hypopharyngeal glands of nurse honey bees.
CC -!- DEVELOPMENTAL STAGE: Produced by the cephalic glandular system of
CC the nurse honey bee.
CC -!- SIMILARITY: Belongs to the major royal jelly protein family.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; AF004842; AAD01205.1; -.
CC InterPro; IPR003534; Royaljelly.
CC Pfam; PF03022; MRJP; 2.
CC PRINTS; PR01366; ROYALJELLY.
CC KW Signal; Repeat; Glycoprotein.
CC FT SIGNAL 1 17 POTENTIAL.
CC FT CHAIN 18 598 MAJOR ROYAL JELLY PROTEIN 5.
CC FT CARBOHYD 148 148 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC FT CARBOHYD 164 164 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC FT CARBOHYD 181 181 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC FT CARBOHYD 324 324 N-LINKED (GLCNAC. . .) (POTENTIAL).
CC SQ SEQUENCE 598 AA; 70236 MW; 2C603C77E7ACDF63 CRC64;

Query Match 83.3%; Score 5; DB 1; Length 598;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWSWA 6
Db 113 DWSWA 117

RESULT 12
LCCB_LEUME STANDARD; PRT; 31 AA.
ID LCCB_LEUME STANDARD; PRT; 31 AA.
AC P81052;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 15-DEC-1998 (Rel. 37, Last annotation update)
DE Bacteriocin leucocin B.
OS Leuconostoc mesenteroides.
OC Bacteria; Firmicutes; Lactobacillales; Leuconostoc.
OX NCBI_TaxID=1245;
RN [1]
RP SEQUENCE.
RC STRAIN=TA33a;
RX MEDLINE=98274743; PubMed=9611809;
RA Papathanasopoulos M.A., Dykes G.A., Revol-Junelles A.-M., Delfour A.,
RA von Holy A., Hastings J.W.;
RT "Sequence and structural relationships of leucocins A-, B- and
RT C-TA33a from Leuconostoc mesenteroides TA33a.";
RL Microbiology 144:1343-1348(1998).
CC -!- FUNCTION: Inhibits a wide spectrum of lactic acid bacteria.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC Bacteriocin; Antibiotic.
KW Bacteriocin; Antibiotic.
SQ SEQUENCE 31 AA; 3466 MW; 7C8DD9C387D34D55 CRC64;

Query Match 66.7%; Score 4; DB 1; Length 31;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 WSWA 6
Db 6 WSWA 9

RESULT 13
TXD3_PARLU
```


ID TXD3 PARLU STANDARD; PRT; 36 AA.
AC P83258;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Delta-palutoxin IT3 (Delta-palutIT3).
OS Paracoelotes luctuosus (Spider).
OC Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Araneae;
OC Araneomorphae; Entelegynae; Amaurobiidae; Paracoelotes.
OX NCBI_TaxID=185217;
RN [1]
RP SEQUENCE, FUNCTION, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RX MEDLINE=20428467; PubMed=10971590;
RA Corzo G., Escoubas P., Stankiewicz M., Pelhate M., Kristensen C.P.,
RA Nakajima T.;
RT "Isolation, synthesis and pharmacological characterization of
RT delta-palutoxins IT, novel insecticidal toxins from the spider
RT Paracoelotes luctuosus (Amaurobiidae).";
RL Eur. J. Biochem. 267:5783-5795(2000).
CC -!- FUNCTION: Potent activity against S.litura larvae.
CC -!- FUNCTION: Binds to sodium channels and inhibits the inactivation
CC of the activated channels. This toxin is active only on insects
CC (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Expressed by the venom gland.
CC -!- MASS SPECTROMETRY: MW=3926.2; METHOD=MALDI.
CC -!- SIMILARITY: Belongs to the mu-agatoxin family.
DR GO; GO:0005576; C:extracellular; NAS.
DR GO; GO:0019871; F:sodium channel inhibitor activity; IDA.
DR GO; GO:0015070; F:toxin activity; IDA.
KW Toxin; Neurotoxin; Ionic channel inhibitor; Sodium channel inhibitor.
FT DISULFID 3 19 BY SIMILARITY.
FT DISULFID 10 24 BY SIMILARITY.
FT DISULFID 18 34 BY SIMILARITY.
FT DISULFID 26 32 BY SIMILARITY.
SQ SEQUENCE 36 AA; 3934 MW; 9CDFDAD043A19804 CRC64;

Query Match 66.7%; Score 4; DB 1; Length 36;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
Db 11 ADWS 14

RESULT 14
TXD1 PARLU
ID TXD1 PARLU STANDARD; PRT; 37 AA.
AC P83256;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Delta-palutoxin IT1 (Delta-palutIT1).
OS Paracoelotes luctuosus (Spider).
OC Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Araneae;
OC Araneomorphae; Entelegynae; Amaurobiidae; Paracoelotes.
OX NCBI_TaxID=185217;
RN [1]
RP SEQUENCE, SYNTHESIS, FUNCTION, DISULFIDE BONDS, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RX MEDLINE=20428467; PubMed=10971590;
RA Corzo G., Escoubas P., Stankiewicz M., Pelhate M., Kristensen C.P.,
RA Nakajima T.;
RT "Isolation, synthesis and pharmacological characterization of
RT delta-palutoxins IT, novel insecticidal toxins from the spider
RT Paracoelotes luctuosus (Amaurobiidae).";
RL Eur. J. Biochem. 267:5783-5795(2000).
CC -!- FUNCTION: Potent activity against S.litura larvae.
CC -!- FUNCTION: Binds to sodium channels and inhibits the inactivation
CC of the activated channels. This toxin is active only on insects.
CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- TISSUE SPECIFICITY: Expressed by the venom gland.
CC -!- MASS SPECTROMETRY: MW=4037.9; METHOD=MALDI.
CC -!- SIMILARITY: Belongs to the mu-agatoxin family.
DR PIR; A59401; A59401.
DR GO; GO:0005576; C:extracellular; NAS.
DR GO; GO:0019871; F:sodium channel inhibitor activity; IDA.
DR GO; GO:0015070; F:toxin activity; IDA.
KW Toxin; Neurotoxin; Ionic channel inhibitor; Amidation;
KW Sodium channel inhibitor.
FT DISULFID 2 18
FT DISULFID 9 23
FT DISULFID 17 33
FT DISULFID 25 31
FT MOD_RES 37 37 AMIDATION.
SQ SEQUENCE 37 AA; 4046 MW; E019DABCC25BC11E CRC64;

Query Match 66.7%; Score 4; DB 1; Length 37;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
Db 10 ADWS 13

RESULT 15
ACYP MYCTU
ID ACYP MYCTU STANDARD; PRT; 93 AA.
AC P56543;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Putative acylphosphatase (EC 3.6.1.7) (Acylphosphate
DE phosphohydrolase).
GN ACYP OR RV2922.1C OR MT2991 OR MTCY338.11BC OR MB2947C.
OS Mycobacterium tuberculosis, and
OS Mycobacterium bovis.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OX NCBI_TaxID=1773, 1765;
RN [1]
RP SEQUENCE FROM N.A.
RC SPECIES=M.tuberculosis; STRAIN=H37RV;
RX MEDLINE=98295987; PubMed=9634230;
RA Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harris D.,
RA Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekaiia F.,
RA Badcock K., Basham D., Brown D., Chillingworth T., Connor R.,
RA Davies R., Devlin K., Feltwell T., Gentles S., Hamlin N., Holroyd S.,
RA Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L.,
RA Oliver S., Osborne J., Quail M.A., Rajandream M.A., Rogers J.,
RA Rutter S., Seeger K., Skelton S., Squares S., Squares R.,
RA Sulston J.E., Taylor K., Whitehead S., Barrell B.G.;
RT "Deciphering the biology of Mycobacterium tuberculosis from the
RT complete genome sequence.";
RL Nature 393:537-544(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC SPECIES=M.tuberculosis; STRAIN=CDC 1551 / Oshkosh;
RX MEDLINE=22206494; PubMed=12218036;
RA Fleischmann R.D., Alland D., Eisen J.A., Carpenter L., White O.,
RA Peterson J., DeBoy R., Dodson R., Gwinn M., Haft D., Hickey E.,
RA Kolonay J.F., Nelson W.C., Umayam L.A., Ermolaeva M., Salzberg S.L.,
RA Delcher A., Utterback T., Weidman J., Khouri H., Gill J., Mikula A.,
RA Bishai W., Jacobs W.R. Jr., Venter J.C., Fraser C.M.;
RT "Whole-genome comparison of Mycobacterium tuberculosis clinical and
RT laboratory strains.";
RL J. Bacteriol. 184:5479-5490(2002).
RN [3]
RP SEQUENCE FROM N.A.
RC SPECIES=M.bovis; STRAIN=AF2122/97;
RX MEDLINE=22709107; PubMed=12788972;
RA Garnier T., Eiglmeier K., Camus J.-C., Medina N., Mansoor H.,
RA Pryor M., Duthoy S., Grondin S., Lacroix C., Monsempe C., Simon S.,

RA Harris B., Atkin R., Doggett J., Mayes R., Keating L., Wheeler P.R.,
RA Parkhill J., Barrell B.G., Cole S.T., Gordon S.V., Hewinson R.G.;
RT "The complete genome sequence of Mycobacterium bovis.";
RL Proc. Natl. Acad. Sci. U.S.A. 100:7877-7882(2003).
RN [4]
RP IDENTIFICATION.
RC SPECIES=M.tuberculosis;
RA Bairoch A.;
RL Submitted (MAY-1998) to the EMBL/GenBank/DBJ databases.
CC -!- CATALYTIC ACTIVITY: An acyl phosphate + H(2)O = a fatty acid anion
CC + phosphate.
CC -!- SIMILARITY: Belongs to the acylphosphatase family.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; Z74697; -; NOT ANNOTATED_CDS.
DR EMBL; AE007121; AAK47318.1; -.
DR EMBL; BX248344; CAD96634.1; -.
DR TIGR; MT2991; -.
DR Tuberculist; RV2922.1c; -.
DR InterPro; IPR001792; Acylphosphatase.
DR Pfam; PF00708; Acylphosphatase; 1.
DR ProDom; PD001884; Acylphosphatase; 1.
DR PROSITE; PS00150; ACYLPHOSPHATASE_1; 1.
DR PROSITE; PS00151; ACYLPHOSPHATASE_2; 1.
KW Hypothetical protein; Hydrolase; Complete proteome.
SQ SEQUENCE 93 AA; 10206 MW; 63A90ED2D780DDEB CRC64;

Query Match 66.7%; Score 4; DB 1; Length 93;
Best Local Similarity 100.0%; Pred.No.56;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
| | | |
Db 78 ADWS 81

Search completed: April 27, 2004, 08:58:56
Job time : 12 secs

Matches	5;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	1	ADWSW 5							
Db	618	ADWSW 622							
RESULT 3									
A24047									
gap junction protein, cardiac - rat (fragment)									
C;Species:	Rattus norvegicus (Norway rat)								
C;Date:	25-Oct-1987 #sequence_revision 25-Oct-1987 #text_change 16-Jul-1999								
C;Accession:	A24047								
R;Nicholson,	B.J.; Gros, D.B.; Kent, S.B.H.; Hood, L.E.; Revel, J.P.								
J. Biol. Chem.	260, 6514-6517, 1985								
A;Title:	The Mr 28,000 gap junction proteins from rat heart and liver are different but								
A;Reference number:	A92530; MUID:85207650; PMID:2987225								
A;Accession:	A24047								
A;Molecule type:	protein								
A;Residues:	1-32 <NIC>								
C;Superfamily:	gap junction protein								
C;Keywords:	cardiac muscle; heart; transmembrane protein								
Query Match	66.7%;	Score	4;	DB	2;	Length	32;		
Best Local Similarity	100.0%;	Pred.	No.	44;					
Matches	4;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	1	ADWS 4							
Db	1	ADWS 4							
RESULT 4									
A59401									
delta-palutl1 - Paracoelotes luctuosus									
C;Species:	Paracoelotes luctuosus								
C;Date:	31-Dec-2001 #sequence_revision 31-Dec-2001 #text_change 17-May-2002								
C;Accession:	A59401								
R;Corzo, G.									
Eur. J. Biochem.	267, 5783-5795, 2000								
A;Title:	Isolation, synthesis and pharmacological characterization of delta-palutoxins I								
A;Reference number:	A59401								
A;Accession:	A59401								
A;Status:	preliminary								
A;Molecule type:	protein								
A;Residues:	1-37 <COR>								
A;Note:	insect-specific sodium channel neurotoxin								
C;Superfamily:	curtatoxin								
F;2-18/Disulfide bonds:	#status experimental								
F;9-23/Disulfide bonds:	#status experimental								
F;17-33/Disulfide bonds:	#status experimental								
F;25-31/Disulfide bonds:	#status experimental								
Query Match	66.7%;	Score	4;	DB	2;	Length	37;		
Best Local Similarity	100.0%;	Pred.	No.	50;					
Matches	4;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	1	ADWS 4							
Db	10	ADWS 13							
RESULT 5									
AG2302									
hypothetical protein asl3974 [imported] - Nostoc sp. (strain PCC 7120)									
C;Species:	Nostoc sp. PCC 7120								
A;Note:	Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120								
C;Date:	14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Dec-2002								
C;Accession:	AG2302								
R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguchi									
Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, S									
DNA Res.	8, 205-213, 2001								
A;Title:	Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Ana								

A;Reference number:	AB1807; MUID:21595285; PMID:11759840								
A;Accession:	AG2302								
A;Status:	preliminary								
A;Molecule type:	DNA								
A;Residues:	1-57 <KUR>								
A;Cross-references:	GB:BA000019; PIDN:BA075673.1; PID:gl7133108; GSPDB:GN00179								
A;Experimental source:	strain PCC 7120								
C;Genetics:									
A;Gene:	asl3974								
Query Match	66.7%;	Score	4;	DB	2;	Length	57;		
Best Local Similarity	100.0%;	Pred.	No.	72;					
Matches	4;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	1	ADWS 4							
Db	41	ADWS 44							
RESULT 6									
H95051									
hypothetical protein SP0448 [imported] - Streptococcus pneumoniae (strain TIGR4)									
C;Species:	Streptococcus pneumoniae								
C;Date:	03-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 03-Aug-2001								
C;Accession:	H95051								
R;Tettelin, H.; Nelson, K.E.; Paulsen, I.T.; Eisen, J.A.; Read, T.D.; Peterson, S.; Heide									
on, J.D.; Umayam, L.A.; White, O.; Salzberg, S.L.; Lewis, M.R.; Radune, D.; Holtzapple, I									
nson, T.; Hickey, E.K.; Holt, I.E.									
Science	293, 498-506, 2001								
A;Authors:	Lofthus, B.J.; Yang, F.; Smith, H.O.; Venter, J.C.; Dougherty, B.A.; Morrison,								
A;Title:	Complete Genome Sequence of a virulent isolate of Streptococcus pneumoniae.								
A;Reference number:	A95000; MUID:21357209; PMID:11463916								
A;Accession:	H95051								
A;Status:	preliminary								
A;Molecule type:	DNA								
A;Residues:	1-88 <KUR>								
A;Cross-references:	GB:AE005672; PIDN:AAK74609.1; PID:gl4971918; GSPDB:GN00164; TIGR:SP4								
A;Experimental source:	strain TIGR4								
C;Genetics:									
A;Gene:	SP0448								
Query Match	66.7%;	Score	4;	DB	2;	Length	88;		
Best Local Similarity	100.0%;	Pred.	No.	1e+02;					
Matches	4;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	1	ADWS 4							
Db	18	ADWS 21							
RESULT 7									
D97922									
hypothetical protein spr0404 [imported] - Streptococcus pneumoniae (strain R6)									
C;Species:	Streptococcus pneumoniae								
C;Date:	22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 22-Oct-2001								
C;Accession:	D97922								
R;Hoskins, J.A.; Alborn Jr., W.; Arnold, J.; Blaszcak, L.; Burgett, S.; DeHoff, B.S.; E									
e, R.; LeBlanc, D.J.; Lee, L.N.; Lefkowitz, E.J.; Lu, J.; Matsushima, P.; McAhren, S.; M									
y, P.; Sun, P.M.; Winkler, M.E.									
J. Bacteriol.	183, 5709-5717, 2001								
A;Authors:	Yang, Y.; Young-Bellido, M.; Zhao, G.; Zook, C.; Baltz, R.H.; Jaskunas, S.R.;								
A;Title:	Genome of the Bacterium Streptococcus pneumoniae Strain R6.								
A;Reference number:	A97872; MUID:21429245; PMID:11544234								
A;Accession:	D97922								
A;Status:	preliminary								
A;Molecule type:	DNA								
A;Residues:	1-88 <KUR>								
A;Cross-references:	GB:AE007317; PIDN:AAK99208.1; PID:gl5457967; GSPDB:GN00174								
C;Genetics:									
A;Gene:	spr0404								
Query Match	66.7%;	Score	4;	DB	2;	Length	88;		
Best Local Similarity	100.0%;	Pred.	No.	1e+02;					

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
|||||

Db 18 ADWS 21

RESULT 8
Tl0250
lectin homolog 2 - cucumber (fragment)
C;Species: Cucumis sativus (cucumber)
C;Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 21-Jul-2000
C;Accession: Tl0250
R;Toyama, T.; Teramoto, H.; Takeba, G.; Tsuji, H.
Plant Cell Physiol. 36, 1349-1359, 1995
A;Title: Cytokinin induces a rapid decrease in the levels of mRNAs for catalase, 3-hydro
A;Reference number: Z16946; MUID:96104306; PMID:8564304
A;Accession: Tl0250
A;Status: translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-94 <TOY>
A;Cross-references: EMBL:D63388; NID:g1199482; PIDN:BAA09704.1; PID:g1199483
A;Experimental source: seedling; cotyledon

Query Match 66.7%; Score 4; DB 2; Length 94;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 WSWA 6
|||||

Db 35 WSWA 38

RESULT 9
T36897
probable xylanase - Streptomyces coelicolor (fragment)
C;Species: Streptomyces coelicolor
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Dec-2002
C;Accession: T36897
R;Seeger, K.; Harris, D.; Bentley, S.D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.
submitted to the EMBL Data Library, July 1999
A;Reference number: Z21574
A;Accession: T36897
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-95 <SEE>
A;Cross-references: EMBL:AL096743; PIDN:CAB46384.1; GSPDB:GN000070; SCOEDB:SCI7.01c
A;Experimental source: strain A3(2)
C;Genetics:
A;Gene: SCOEDB:SCI7.01c
C;Superfamily: Xylan 1,4-beta-xylosidase (EC 3.2.1.37)

Query Match 66.7%; Score 4; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
|||||

Db 18 ADWS 21

RESULT 10
E53374
type IV prepilin peptidase (EC 3.4.99.-) pILD - Neisseria subflava (strain LNP3260) (fra
N;Contains: type IV pilin N-methyltransferase (EC 2.1.1.-)
C;Species: Neisseria subflava
C;Date: 19-Mar-1997 #sequence_revision 19-Dec-1997 #text_change 29-Jan-1999
C;Accession: E53374
R;Dupuy, B.; Pugsley, A.P.
J. Bacteriol. 176, 1323-1331, 1994
A;Title: Type IV prepilin peptidase gene of Neisseria gonorrhoeae MS11: presence of a re
A;Reference number: A53374; MUID:94156836; PMID:7906688
A;Accession: E53374

A;Status: preliminary; nucleic acid sequence not shown; not compared with conceptual tra
A;Molecule type: DNA
A;Residues: 1-97 <DUP>
C;Genetics:
A;Gene: pILD
C;Superfamily: type IV prepilin peptidase
C;Keywords: hydrolase; methyltransferase; S-adenosylmethionine

Query Match 66.7%; Score 4; DB 2; Length 97;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 WSWA 6
|||||

Db 19 WSWA 22

RESULT 11
D53374
type IV prepilin peptidase (EC 3.4.99.-) - Neisseria sicca (strain LNP3265) (fragment)
N;Contains: type IV pilin N-methyltransferase (EC 2.1.1.-)
C;Species: Neisseria sicca
C;Date: 23-Mar-1995 #sequence_revision 23-Mar-1995 #text_change 29-Jan-1999
C;Accession: D53374
R;Dupuy, B.; Pugsley, A.P.
J. Bacteriol. 176, 1323-1331, 1994
A;Title: Type IV prepilin peptidase gene of Neisseria gonorrhoeae MS11: presence of a re
A;Reference number: A53374; MUID:94156836; PMID:7906688
A;Accession: D53374
A;Status: preliminary; nucleic acid sequence not shown; not compared with conceptual tra
A;Molecule type: DNA
A;Residues: 1-98 <DUP>
C;Superfamily: type IV prepilin peptidase
C;Keywords: hydrolase; methyltransferase; S-adenosylmethionine

Query Match 66.7%; Score 4; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 WSWA 6
|||||

Db 20 WSWA 23

RESULT 12
H81042
hypothetical protein NMB1782 [imported] - Neisseria meningitidis (strain MC58 serogroup I
C;Species: Neisseria meningitidis
C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 02-Feb-2001
C;Accession: H81042; G81988
R;Tettelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Eisen, J.A
Hickey, E.K.; Haft, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty, B.A.;
xi, H.; Qin, H.; Vamathevan, J.; Gill, J.; Scarlato, V.; Masignani, V.; Pizza, M.
Science 287, 1809-1815, 2000
A;Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; Rappuoli, R.; Ver
A;Title: Complete genome sequence of Neisseria meningitidis serogroup B strain MC58.
A;Reference number: A81000; MUID:20175755; PMID:10710307
A;Accession: H81042
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-100 <TET>
A;Cross-references: GB:AE002528; GB:AE002098; NID:g7227034; PIDN:AAF42122.1; PID:g722703
A;Experimental source: serogroup B, strain MC58
R;Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.; Morell
; Holroyd, S.; Jagels, K.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; Rajandream,
Nature 404, 502-506, 2000
A;Title: Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491.
A;Reference number: A81775; MUID:20222556; PMID:10761919
A;Accession: G81988
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-100 <PAR>
A;Cross-references: GB:AL162753; GB:AL157959; NID:g7379120; PIDN:CAB83970.1; PID:g737941

A;Experimental source: serogroup A, strain Z2491
C;Genetics:
A;Gene: NMB1782; NMA0683; NMA0684
C;Superfamily: Neisseria meningitidis hypothetical protein NMB1782

Query Match 66.7%; Score 4; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWSW 5
|||
Db 77 DWSW 80

RESULT 13

T31781
hypothetical protein F13H6.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 04-Mar-2000
C;Accession: T31781

R;Jones, K.; Wohldmann, P.
submitted to the EMBL Data Library, July 1997
A;Description: The sequence of C. elegans cosmid F13H6.
A;Reference number: Z21085

A;Accession: T31781
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-115 <JON>
A;Cross-references: EMBL:AF016437; PIDN:AAB5884.1; GSPDB:GN00023; CESP:F13H6.2
A;Experimental source: strain Bristol N2; clone F13H6
C;Genetics:

A;Gene: CESP:F13H6.2
A;Map position: 5
A;Introns: 52/1; 92/3
C;Superfamily: Caenorhabditis elegans hypothetical protein F13H6.2

Query Match 66.7%; Score 4; DB 2; Length 115;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
|||
Db 95 ADWS 98

RESULT 14

E90828
probable terminase small subunit [imported] - Escherichia coli (strain O157:H7, substrain
C;Species: Escherichia coli
C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 18-Jul-2001
C;Accession: E90828

R;Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.
gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.
DNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gen
A;Reference number: A99629; MUID:21156231; PMID:11258796

A;Accession: E90828
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-118 <HAY>
A;Cross-references: GB:BA000007; PIDN:BA35020.1; PID:gl3361061; GSPDB:GN00154
A;Experimental source: strain O157:H7, substrain RIMD 0509952
C;Genetics:

A;Gene: ECs1597

Query Match 66.7%; Score 4; DB 2; Length 118;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
|||
Db 35 ADWS 38

RESULT 15

B85686
unknown protein encoded by prophage CP-933C [imported] - Escherichia coli (strain O157:H
C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 14-Sep-2001
C;Accession: B85686

R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew
iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, K.; Apodaca,
Nature 409, 529-533, 2001

A;Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
A;Reference number: A85480; MUID:21074935; PMID:11206551

A;Accession: B85686
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-118 <STO>

A;Cross-references: GB:AE005174; NID:gl2514775; PIDN:AAG55950.1; GSPDB:GN00145; UWGP:Z18
A;Experimental source: strain O157:H7, substrain EDL933
C;Genetics:
A;Gene: Z1853

Query Match 66.7%; Score 4; DB 2; Length 118;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
|||
Db 35 ADWS 38

Search completed: April 27, 2004, 08:59:31
Job time : 23 secs

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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:58:38 ; Search time 42 Seconds
(without alignments)
39.496 Million cell updates/sec

Title: US-09-847-940C-6
Perfect score: 6
Sequence: 1 ADWSWA 6

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Gapop 60.0 , Gapext 60.0

Searched: 1133595 seqs, 276475211 residues

Word size : 0
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Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6	100.0	6	10	US-09-847-946A-41
2	6	100.0	6	10	US-09-847-946A-73
3	6	100.0	7	10	US-09-847-946A-77
4	6	100.0	8	10	US-09-847-946A-70
5	6	100.0	8	10	US-09-847-946A-78
6	6	100.0	9	10	US-09-847-946A-69
7	6	100.0	9	10	US-09-847-946A-72
8	6	100.0	9	10	US-09-847-946A-75
9	6	100.0	9	10	US-09-847-946A-76
10	6	100.0	10	10	US-09-847-946A-71
11	6	100.0	10	10	US-09-847-946A-74
12	6	100.0	11	10	US-09-847-946A-68
13	5	83.3	6	9	US-09-847-940B-4
14	5	83.3	6	9	US-09-847-940B-5
15	5	83.3	6	10	US-09-847-946A-4

16	5	83.3	6	10	US-09-847-946A-5	Sequence 5, Appli
17	5	83.3	6	10	US-09-847-946A-39	Sequence 39, Appl
18	5	83.3	6	10	US-09-847-946A-40	Sequence 40, Appl
19	5	83.3	6	10	US-09-847-946A-51	Sequence 51, Appl
20	5	83.3	6	10	US-09-847-946A-62	Sequence 62, Appl
21	5	83.3	7	10	US-09-847-946A-55	Sequence 55, Appl
22	5	83.3	7	10	US-09-847-946A-66	Sequence 66, Appl
23	5	83.3	8	10	US-09-847-946A-48	Sequence 48, Appl
24	5	83.3	8	10	US-09-847-946A-56	Sequence 56, Appl
25	5	83.3	8	10	US-09-847-946A-59	Sequence 59, Appl
26	5	83.3	8	10	US-09-847-946A-67	Sequence 67, Appl
27	5	83.3	9	10	US-09-847-946A-47	Sequence 47, Appl
28	5	83.3	9	10	US-09-847-946A-50	Sequence 50, Appl
29	5	83.3	9	10	US-09-847-946A-53	Sequence 53, Appl
30	5	83.3	9	10	US-09-847-946A-54	Sequence 54, Appl
31	5	83.3	9	10	US-09-847-946A-58	Sequence 58, Appl
32	5	83.3	9	10	US-09-847-946A-61	Sequence 61, Appl
33	5	83.3	9	10	US-09-847-946A-64	Sequence 64, Appl
34	5	83.3	9	10	US-09-847-946A-65	Sequence 65, Appl
35	5	83.3	10	10	US-09-847-946A-49	Sequence 49, Appl
36	5	83.3	10	10	US-09-847-946A-52	Sequence 52, Appl
37	5	83.3	10	10	US-09-847-946A-57	Sequence 57, Appl
38	5	83.3	10	10	US-09-847-946A-60	Sequence 60, Appl
39	5	83.3	10	10	US-09-847-946A-63	Sequence 63, Appl
40	5	83.3	11	10	US-09-847-946A-46	Sequence 46, Appl
41	5	83.3	147	12	US-10-424-599-199086	Sequence 199086,
42	5	83.3	174	14	US-10-219-220-163	Sequence 163, App
43	5	83.3	225	14	US-10-219-220-162	Sequence 162, App
44	5	83.3	236	12	US-10-441-625-17	Sequence 17, Appl
45	5	83.3	236	14	US-10-441-626-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1
US-09-847-946A-41
; Sequence 41, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 41
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-41

Query Match 100.0%; Score 6; DB 10; Length 6;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 ADWSWA 6
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Db 1 ADWSWA 6

RESULT 2
US-09-847-946A-73
; Sequence 73, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 73
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-73

Query Match 100.0%; Score 6; DB 10; Length 6;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
|||||
Db 1 ADWSWA 6

RESULT 3
US-09-847-946A-77
; Sequence 77, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 77
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-77

Query Match 100.0%; Score 6; DB 10; Length 7;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
|||||

Db 1 ADWSWA 6

RESULT 4
US-09-847-946A-70
; Sequence 70, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 70
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-70

Query Match 100.0%; Score 6; DB 10; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
|||||
Db 3 ADWSWA 8

RESULT 5
US-09-847-946A-78
; Sequence 78, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 78
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-78

Query Match 100.0%; Score 6; DB 10; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
| | | | |
Db 1 ADWSWA 6

RESULT 6
US-09-847-946A-69
; Sequence 69, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 69
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-69

Query Match 100.0%; Score 6; DB 10; Length 9;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
| | | | |
Db 1 ADWSWA 6

RESULT 7
US-09-847-946A-72
; Sequence 72, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 72
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-72

Query Match 100.0%; Score 6; DB 10; Length 9;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
| | | | |
Db 1 ADWSWA 6

RESULT 8
US-09-847-946A-75
; Sequence 75, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 75
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-75

Query Match 100.0%; Score 6; DB 10; Length 9;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
| | | | |
Db 3 ADWSWA 8

RESULT 9
US-09-847-946A-76
; Sequence 76, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 76
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-76


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; OTHER INFORMATION: sequence
US-09-847-946A-76

Query Match      100.0%; Score 6; DB 10; Length 9;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSWA 6
      |||||
Db      2 ADWSWA 7

RESULT 10
US-09-847-946A-71
; Sequence 71, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 71
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-71

Query Match      100.0%; Score 6; DB 10; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSWA 6
      |||||
Db      2 ADWSWA 7

RESULT 11
US-09-847-946A-74
; Sequence 74, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 74
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-74

Query Match      100.0%; Score 6; DB 10; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSWA 6
      |||||
Db      2 ADWSWA 7

RESULT 12
US-09-847-946A-68
; Sequence 68, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 68
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-68

Query Match      100.0%; Score 6; DB 10; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSWA 6
      |||||
Db      3 ADWSWA 8

RESULT 13
US-09-847-940B-4
; Sequence 4, Application US/09847940B
; Patent No. US20020156000A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J.
; APPLICANT: Ghosh, Sankar
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-117CP
; CURRENT APPLICATION NUMBER: US/09/847,940B
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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OTHER INFORMATION: Description of Artificial Sequence:NBD mutants
US-09-847-940B-4

Query Match 83.3%; Score 5; DB 9; Length 6;
Best Local Similarity 100.0%; Pred. No.1e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
| | | | |
Db 1 ADWSW 5

RESULT 14
US-09-847-940B-5
; Sequence 5, Application US/09847940B
; Patent No. US20020156000A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J.
; APPLICANT: Ghosh, Sankar
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-117CP
; CURRENT APPLICATION NUMBER: US/09/847,940B
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NBD mutants
US-09-847-940B-5

Query Match 83.3%; Score 5; DB 9; Length 6;
Best Local Similarity 100.0%; Pred. No.1e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWSWA 6
| | | | |
Db 2 DWSWA 6

RESULT 15
US-09-847-946A-4
; Sequence 4, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Flindeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847,946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201,261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643,260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NBD peptide
US-09-847-946A-4

Query Match 83.3%; Score 5; DB 10; Length 6;

Best Local Similarity 100.0%; Pred. No.1e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSW 5
| | | | |
Db 1 ADWSW 5

Search completed: April 27, 2004, 09:04:07
Job time : 42 secs

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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:55:33 ; Search time 22 Seconds
(without alignments)
14.080 Million cell updates/sec

Title: US-09-847-940C-6
Perfect score: 6
Sequence: 1 ADWSWA 6

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

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Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
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Post-processing: Listing first 45 summaries

Database : Issued Patents_AA:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	5	83.3	68	4	US-09-252-991A-18367
2	5	83.3	142	4	US-09-252-991A-31533
3	5	83.3	174	4	US-09-325-932A-163
4	5	83.3	225	4	US-09-325-932A-162
5	5	83.3	236	4	US-09-632-570-17
6	5	83.3	236	4	US-09-632-575-47
7	5	83.3	242	4	US-09-345-236B-3
8	5	83.3	378	4	US-09-325-932A-158
9	5	83.3	445	4	US-09-252-991A-22368
10	5	83.3	462	4	US-09-252-991A-21704
11	4	66.7	5	6	5217869-75
12	4	66.7	8	1	US-08-435-925C-9
13	4	66.7	9	1	US-08-435-925C-10
14	4	66.7	21	1	US-08-190-788A-246
15	4	66.7	21	1	US-08-383-474B-249
16	4	66.7	21	1	US-08-465-391A-246
17	4	66.7	21	2	US-08-464-538B-246
18	4	66.7	21	2	US-08-463-076E-303
19	4	66.7	21	4	US-09-428-082B-866
20	4	66.7	44	3	US-08-905-223-274
21	4	66.7	74	1	US-08-379-538-2
22	4	66.7	78	3	US-09-177-249-184
23	4	66.7	79	4	US-09-252-991A-27207
24	4	66.7	80	4	US-09-621-976-4160
25	4	66.7	84	3	US-09-251-372-4
26	4	66.7	84	4	US-09-811-241-4
27	4	66.7	84	4	US-09-252-991A-19040

28	4	66.7	95	4	US-09-252-991A-31932	Sequence 31932, A
29	4	66.7	100	1	US-08-241-853-28	Sequence 28, Appl
30	4	66.7	100	1	US-08-241-853-29	Sequence 29, Appl
31	4	66.7	100	2	US-08-850-917-28	Sequence 28, Appl
32	4	66.7	100	2	US-08-850-917-29	Sequence 29, Appl
33	4	66.7	106	2	US-08-585-585A-4	Sequence 4, Appli
34	4	66.7	106	2	US-08-249-037C-4	Sequence 4, Appli
35	4	66.7	106	2	US-08-788-622B-4	Sequence 4, Appli
36	4	66.7	106	3	US-08-788-621B-4	Sequence 4, Appli
37	4	66.7	109	1	US-08-477-270-20	Sequence 20, Appl
38	4	66.7	117	4	US-09-149-476-360	Sequence 360, App
39	4	66.7	121	4	US-09-673-395A-204	Sequence 204, App
40	4	66.7	125	4	US-09-543-681A-7177	Sequence 7177, Ap
41	4	66.7	138	4	US-09-252-991A-20154	Sequence 20154, A
42	4	66.7	163	4	US-09-257-583-13	Sequence 13, Appl
43	4	66.7	164	4	US-09-252-991A-23817	Sequence 23817, A
44	4	66.7	170	4	US-09-199-637A-339	Sequence 339, App
45	4	66.7	172	4	US-09-252-991A-23876	Sequence 23876, A

ALIGNMENTS

RESULT 1
US-09-252-991A-18367
; Sequence 18367, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18367
; LENGTH: 68
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18367

Query Match 83.3%; Score 5; DB 4; Length 68;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6
|
|
|
|
Db 2 DWSWA 6

RESULT 2
US-09-252-991A-31533
; Sequence 31533, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 31533
; LENGTH: 142
; TYPE: PRT

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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31533

Query Match      83.3%; Score 5; DB 4; Length 142;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSW 5
      |||||
Db      94 ADWSW 98

RESULT 3
US-09-325-932A-163
; Sequence 163, Application US/09325932A
; Patent No. 6451604
; GENERAL INFORMATION:
; APPLICANT: Flinn, Barry
; APPLICANT: Lasham, Annette
; TITLE OF INVENTION: Compositions affecting programmed cell
; TITLE OF INVENTION: death and their use in the modification of forestry plant develop
; FILE REFERENCE: 1022
; CURRENT APPLICATION NUMBER: US/09/325,932A
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 163
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-09-325-932A-163

Query Match      83.3%; Score 5; DB 4; Length 174;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSW 5
      |||||
Db      109 ADWSW 113

RESULT 4
US-09-325-932A-162
; Sequence 162, Application US/09325932A
; Patent No. 6451604
; GENERAL INFORMATION:
; APPLICANT: Flinn, Barry
; APPLICANT: Lasham, Annette
; TITLE OF INVENTION: Compositions affecting programmed cell
; TITLE OF INVENTION: death and their use in the modification of forestry plant develop
; FILE REFERENCE: 1022
; CURRENT APPLICATION NUMBER: US/09/325,932A
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 162
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-09-325-932A-162

Query Match      83.3%; Score 5; DB 4; Length 225;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSW 5
      |||||
Db      100 ADWSW 104

RESULT 5
US-09-632-570-17
; Sequence 17, Application US/09632570
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; Patent No. 6623949
; GENERAL INFORMATION:
; APPLICANT: Gualfetti, Peter
; APPLICANT: Mitchinson, Colin
; APPLICANT: Phillips, Jay Ian
; TITLE OF INVENTION: No. 6623949el Variant EGIII-Like Cellulase
; TITLE OF INVENTION: Compositions
; FILE REFERENCE: GC631
; CURRENT APPLICATION NUMBER: US/09/632,570
; CURRENT FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Gliocladium roseum (3)
US-09-632-570-17

Query Match      83.3%; Score 5; DB 4; Length 236;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSW 5
      |||||
Db      63 ADWSW 67

RESULT 6
US-09-632-575-47
; Sequence 47, Application US/09632575
; Patent No. 6635465
; GENERAL INFORMATION:
; APPLICANT: Gualfetti, Peter
; APPLICANT: Mitchinson, Colin
; APPLICANT: Ropp, Traci M.
; TITLE OF INVENTION: Mutant EGIII Cellulase, DNA Encoding
; TITLE OF INVENTION: Such EGIII Compositions and Methods for Obtaining Same
; FILE REFERENCE: GC629
; CURRENT APPLICATION NUMBER: US/09/632,575
; CURRENT FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Gliocladium roseum (3)
US-09-632-575-47

Query Match      83.3%; Score 5; DB 4; Length 236;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSW 5
      |||||
Db      63 ADWSW 67

RESULT 7
US-09-345-236B-3
; Sequence 3, Application US/09345236B
; Patent No. 6521454
; GENERAL INFORMATION:
; APPLICANT: Becnel, James J.
; APPLICANT: Tuku, Fukuda
; APPLICANT: Moser, Bettina
; APPLICANT: Cockburn, Andrew
; APPLICANT: White, Susan E.
; APPLICANT: Undeen, Albert H.
; TITLE OF INVENTION: No. 6521454el Baculoviruses, Insecticidal
; TITLE OF INVENTION: Compositions, and Methods for Control of Invertebrates
; FILE REFERENCE: 21042.0004
; CURRENT APPLICATION NUMBER: US/09/345,236B
; CURRENT FILING DATE: 1999-06-30
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```
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 242
; TYPE: PRT
; ORGANISM: mosquito baculovirus
US-09-345-236B-3

Query Match      83.3%; Score 5; DB 4; Length 242;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 DWSWA 6
      |||||
Db      80 DWSWA 84

RESULT 8
US-09-325-932A-158
; Sequence 158, Application US/09325932A
; Patent No. 6451604
; GENERAL INFORMATION:
; APPLICANT: Flinn, Barry
; APPLICANT: Lasham, Annette
; TITLE OF INVENTION: Compositions affecting programmed cell
; TITLE OF INVENTION: death and their use in the modification of forestry plant develop
; FILE REFERENCE: 1022
; CURRENT APPLICATION NUMBER: US/09/325,932A
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 158
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-09-325-932A-158

Query Match      83.3%; Score 5; DB 4; Length 378;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSW 5
      |||||
Db     128 ADWSW 132

RESULT 9
US-09-252-991A-22368
; Sequence 22368, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22368
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22368

Query Match      83.3%; Score 5; DB 4; Length 445;
Best Local Similarity 100.0%; Pred. No. 6.2;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 DWSWA 6
```

```
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 242
; TYPE: PRT
; ORGANISM: mosquito baculovirus
US-09-345-236B-3

Query Match      83.3%; Score 5; DB 4; Length 242;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 DWSWA 6
      |||||
Db      80 DWSWA 84

RESULT 8
US-09-325-932A-158
; Sequence 158, Application US/09325932A
; Patent No. 6451604
; GENERAL INFORMATION:
; APPLICANT: Flinn, Barry
; APPLICANT: Lasham, Annette
; TITLE OF INVENTION: Compositions affecting programmed cell
; TITLE OF INVENTION: death and their use in the modification of forestry plant develop
; FILE REFERENCE: 1022
; CURRENT APPLICATION NUMBER: US/09/325,932A
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 158
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-09-325-932A-158

Query Match      83.3%; Score 5; DB 4; Length 378;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ADWSW 5
      |||||
Db     128 ADWSW 132

RESULT 9
US-09-252-991A-22368
; Sequence 22368, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22368
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22368

Query Match      83.3%; Score 5; DB 4; Length 445;
Best Local Similarity 100.0%; Pred. No. 6.2;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 DWSWA 6
```

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Db      304 DWSWA 308

RESULT 10
US-09-252-991A-21704
; Sequence 21704, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21704
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21704

Query Match      83.3%; Score 5; DB 4; Length 462;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 DWSWA 6
      |||||
Db     169 DWSWA 173

RESULT 11
5217869-75
; Patent No. 5217869
; APPLICANT: KAUVAR, LAWRENCE M.
; TITLE OF INVENTION: METHOD TO PRODUCE IMMUNODIAGNOSTIC
; REAGENTS
; NUMBER OF SEQUENCES: 121
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/255,906
; FILING DATE: 11-OCT-1988
; SEQ ID NO:75
; LENGTH: 5
5217869-75

Query Match      66.7%; Score 4; DB 6; Length 5;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 DWSW 5
      ||||
Db       1 DWSW 4

RESULT 12
US-08-435-925C-9
; Sequence 9, Application US/08435925C
; Patent No. 5646025
; GENERAL INFORMATION:
; APPLICANT: Moyer, Donna
; TITLE OF INVENTION: SCYTTALIDUM CATALASE GENE
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5646025o No. 5646025disk of No. 5646025th America, Inc.
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10174-6401
```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/435,925C
FILING DATE: 05-MAY-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4429.000-US
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-435-925C-9

Query Match 66.7%; Score 4; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWS 4
Db 1 ADWS 4

RESULT 13
US-08-435-925C-10
Sequence 10, Application US/08435925C
Patent No. 5646025
GENERAL INFORMATION:
APPLICANT: Moyer, Donna
TITLE OF INVENTION: SCYTALIDUM CATALASE GENE
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 5646025o No. 5646025disk of No. 5646025th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/435,925C
FILING DATE: 05-MAY-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4429.000-US
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-435-925C-10

Query Match 66.7%; Score 4; DB 1; Length 9;

Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ADWS 4
Db 1 ADWS 4

RESULT 14
US-08-190-788A-246
Sequence 246, Application US/08190788A
Patent No. 5608035
GENERAL INFORMATION:
APPLICANT: Yanofsky, Stephen D.
APPLICANT: Barrett, Ronald W.
APPLICANT: Baldwin, David N.
APPLICANT: Jacobs, Jeff W.
TITLE OF INVENTION: Peptides and Compounds That Bind to the
TITLE OF INVENTION: IL-1 Receptor
NUMBER OF SEQUENCES: 312
CORRESPONDENCE ADDRESS:
ADDRESSEE: Affymax Technologies N.V.
STREET: 4001 Miranda Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/190,788A
FILING DATE: 02-FEB-1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/847,567
FILING DATE: 05-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Stevens, Lauren L.
REGISTRATION NUMBER: 36,691
REFERENCE/DOCKET NUMBER: 1019.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-496-2300
TELEFAX: 415-424-0832
INFORMATION FOR SEQ ID NO: 246:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-190-788A-246
Query Match 66.7%; Score 4; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ADWS 4
Db 7 ADWS 10
RESULT 15
US-08-383-474B-249
Sequence 249, Application US/08383474B
Patent No. 5767234
GENERAL INFORMATION:
APPLICANT: Yanofsky, Stephen D.
APPLICANT: Barrett, Ronald W.
APPLICANT: Baldwin, David N.
APPLICANT: Jacobs, Jeff W.

Search completed: April 27, 2004, 08:58:32
Job time : 23 secs

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